

## Summary of Monthly Normals 1991-2020

Generated on 12/03/2021

| 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               | 74.8      | 55.9      | 65.3 | 2.8                   | 3.4                   | 3.0                   | 332.0               | 276.5 | 200.6 | 96.1  | 28.2  | 13.1  | 11.1                | 17.5 | 34.5 | 85.0 | 0.0                 | 0.0       | 30.9      | 0.0       | 0.1       | 0.0      |
| 02               | 77.2      | 57.9      | 67.5 | 3.3                   | 4.0                   | 3.5                   | 354.4               | 302.1 | 227.7 | 118.6 | 41.4  | 23.2  | 3.0                 | 6.7  | 16.4 | 47.3 | 0.0                 | 0.1       | 28.0      | 0.0       | 0.0       | 0.0      |
| 03               | 79.7      | 60.9      | 70.3 | 2.9                   | 3.0                   | 2.9                   | 474.9               | 413.9 | 324.5 | 185.9 | 74.1  | 41.1  | 0.6                 | 1.5  | 5.2  | 21.5 | 0.0                 | 0.3       | 31.0      | 0.0       | 0.0       | 0.0      |
| 04               | 83.8      | 65.5      | 74.6 | 2.0                   | 2.1                   | 1.9                   | 589.5               | 529.5 | 439.8 | 292.0 | 151.9 | 102.2 | 0.0                 | 0.0  | 0.3  | 2.5  | 0.0                 | 2.5       | 30.0      | 0.0       | 0.0       | 0.0      |
| 05               | 87.5      | 70.2      | 78.8 | 1.4                   | 1.7                   | 1.4                   | 739.3               | 677.3 | 584.3 | 429.3 | 274.4 | 212.8 | 0.0                 | 0.0  | 0.0  | 0.0  | 0.0                 | 9.6       | 31.0      | 0.0       | 0.0       | 0.0      |
| 06               | 89.8      | 74.4      | 82.1 | 1.7                   | 1.3                   | 1.3                   | 813.0               | 753.0 | 662.9 | 512.9 | 363.0 | 303.0 | 0.0                 | 0.0  | 0.0  | 0.0  | 0.0                 | 16.8      | 30.0      | 0.0       | 0.0       | 0.0      |
| 07               | 90.8      | 75.5      | 83.1 | 0.8                   | 1.0                   | 0.8                   | 872.7               | 810.7 | 717.7 | 562.7 | 407.7 | 345.7 | 0.0                 | 0.0  | 0.0  | 0.0  | 0.0                 | 22.8      | 31.0      | 0.0       | 0.0       | 0.0      |
| 08               | 90.9      | 75.8      | 83.3 | 0.7                   | 0.8                   | 0.6                   | 878.9               | 816.8 | 723.8 | 568.8 | 413.8 | 351.8 | 0.0                 | 0.0  | 0.0  | 0.0  | 0.0                 | 24.5      | 31.0      | 0.0       | 0.0       | 0.0      |
| 09               | 89.6      | 75.1      | 82.4 | 0.7                   | 0.6                   | 0.5                   | 820.5               | 760.5 | 670.4 | 520.4 | 370.5 | 310.5 | 0.0                 | 0.0  | 0.0  | 0.0  | 0.0                 | 18.4      | 30.0      | 0.0       | 0.0       | 0.0      |
| 10               | 86.5      | 70.5      | 78.5 | 1.5                   | 1.9                   | 1.6                   | 728.5               | 666.5 | 573.4 | 419.3 | 268.7 | 210.2 | 0.0                 | 0.0  | 0.0  | 1.0  | 0.0                 | 7.9       | 31.0      | 0.0       | 0.0       | 0.0      |
| 11               | 81.3      | 63.4      | 72.4 | 1.9                   | 3.1                   | 2.4                   | 520.6               | 460.9 | 372.4 | 232.1 | 111.0 | 71.8  | 0.1                 | 0.3  | 1.8  | 11.5 | 0.0                 | 0.5       | 30.0      | 0.0       | 0.0       | 0.0      |
| 12               | 77.3      | 59.0      | 68.2 | 3.1                   | 4.0                   | 3.5                   | 412.0               | 353.7 | 270.7 | 150.5 | 59.3  | 33.3  | 4.3                 | 8.1  | 18.1 | 52.9 | 0.0                 | 0.0       | 31.0      | 0.0       | 0.0       | 0.0      |
| Summary          | 84.1      | 67.0      | 75.5 | 1.9                   | 2.2                   | 2.0                   | 7536                | 6821  | 5768  | 4089  | 2564  | 2019  | 19                  | 34   | 76   | 222  | 0.0                 | 103.4     | 364.9     | 0.0       | 0.1       | 0.0      |

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                  | 1.68   | 4.7                 | 2.6     | 0.9     | 0.6     | 0.54   | 1.19  | 2.44  |
| 02                  | 1.40   | 4.2                 | 2.1     | 0.7     | 0.3     | 0.72   | 1.09  | 1.64  |
| 03                  | 1.88   | 4.4                 | 2.1     | 0.9     | 0.4     | 0.34   | 1.39  | 2.78  |
| 04                  | 2.52   | 5.5                 | 3.4     | 1.7     | 0.5     | 0.98   | 1.78  | 3.14  |
| 05                  | 2.76   | 7.9                 | 5.4     | 2.1     | 0.7     | 1.97   | 2.55  | 3.41  |
| 06                  | 7.41   | 14.7                | 11.1    | 5.5     | 2.5     | 4.61   | 7.08  | 9.30  |
| 07                  | 7.77   | 16.1                | 11.8    | 4.8     | 2.1     | 6.38   | 7.52  | 9.64  |
| 08                  | 8.89   | 18.7                | 13.5    | 5.9     | 2.6     | 7.59   | 8.76  | 10.02 |
| 09                  | 8.60   | 15.5                | 10.7    | 4.6     | 2.4     | 6.08   | 7.57  | 10.76 |
| 10                  | 3.93   | 6.4                 | 4.1     | 2.0     | 1.1     | 1.25   | 3.24  | 4.84  |
| 11                  | 1.39   | 3.9                 | 2.4     | 0.9     | 0.5     | 0.52   | 1.08  | 2.12  |
| 12                  | 1.32   | 4.5                 | 2.4     | 1.1     | 0.3     | 0.47   | 0.85  | 1.75  |
| Summary             | 49.55  | 106.5               | 71.6    | 31.1    | 14.0    | 31.45  | 44.10 | 61.84 |

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**Summary of Monthly Normals**  
**1991-2020**  
 Generated on 12/03/2021

| 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         | 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 |
| 02         | 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 |
| 03         | 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 |
| 04         | 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 |
| 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         | 0.0              | 0.0                    | 0.0 | 0.0 | 0.0  | 0.0   | 0.0                      | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 |
| 11         | 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 |
| 12         | 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 |
| Summary    | 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 |

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## Summary of Monthly Normals 1991-2020

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| <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   | 785.9      | 771.4      | 939.3      | 1039.5     | 1204.3     | 1263.0     | 1337.7     | 1343.9     | 1270.5     | 1193.5     | 970.5      | 872.6      |
| 45   | 631.4      | 631.4      | 784.3      | 889.5      | 1049.3     | 1113.0     | 1182.7     | 1188.9     | 1120.5     | 1038.5     | 820.5      | 717.6      |
| 50   | 479.1      | 491.6      | 629.3      | 739.5      | 894.3      | 963.0      | 1027.7     | 1033.9     | 970.5      | 883.5      | 670.5      | 563.5      |
| 55   | 332.0      | 354.4      | 474.9      | 589.5      | 739.3      | 813.0      | 872.7      | 878.9      | 820.5      | 728.5      | 520.6      | 412.0      |
| 60   | 200.6      | 227.7      | 324.5      | 439.8      | 584.3      | 662.9      | 717.7      | 723.8      | 670.4      | 573.4      | 372.4      | 270.7      |
| <b>Growing Degree Units for Corn (Monthly)</b> |            |            |            |            |            |            |            |            |            |            |            |            |
| 50/86  | 496.1      | 499.1      | 630.9      | 727.7      | 859.8      | 902.5      | 952.0      | 956.7      | 913.7      | 857.2      | 667.6      | 572.9      |

| <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   | 786        | 1557       | 2497       | 3536       | 4740       | 6003       | 7341       | 8685       | 9956       | 11149      | 12120      | 12992      |
| 45   | 631        | 1263       | 2047       | 2937       | 3986       | 5099       | 6282       | 7470       | 8591       | 9630       | 10450      | 11168      |
| 50   | 479        | 971        | 1600       | 2340       | 3234       | 4197       | 5224       | 6258       | 7229       | 8112       | 8783       | 9346       |
| 55   | 332        | 686        | 1161       | 1751       | 2490       | 3303       | 4176       | 5055       | 5875       | 6604       | 7124       | 7536       |
| 60   | 201        | 428        | 753        | 1193       | 1777       | 2440       | 3158       | 3881       | 4552       | 5125       | 5497       | 5768       |
| <b>Growing Degree Units for Corn (Monthly Accumulated)</b> |            |            |            |            |            |            |            |            |            |            |            |            |
| 50/86  | 496        | 995        | 1626       | 2354       | 3214       | 4116       | 5068       | 6025       | 6938       | 7796       | 8463       | 9036       |

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

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