

**Summary of Monthly Normals**  
**1991-2020**  
 Generated on 10/22/2021

| 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               | 51.2      | 26.4      | 38.8 | 3.4                   | 4.1                   | 3.5                   | 5.8                 | 3.6   | 1.6   | 0.2   | 0.0   | 0.0   | 507.9               | 567.7 | 658.7 | 812.3 | 0.0                 | 0.0       | 15.8      | 2.2       | 23.7      | 0.4      |
| 02               | 55.1      | 27.5      | 41.3 | 4.0                   | 3.2                   | 3.4                   | 7.6                 | 4.4   | 1.6   | 0.1   | 0.0   | 0.0   | 391.1               | 444.0 | 525.2 | 663.7 | 0.0                 | 0.0       | 17.7      | 1.0       | 21.1      | 0.1      |
| 03               | 62.7      | 34.3      | 48.5 | 4.1                   | 3.4                   | 3.6                   | 45.0                | 31.2  | 16.6  | 4.2   | 0.4   | 0.1   | 246.5               | 294.6 | 373.1 | 515.7 | 0.0                 | 0.0       | 26.0      | 0.1       | 14.5      | 0.0      |
| 04               | 72.9      | 43.0      | 58.0 | 3.1                   | 2.5                   | 2.5                   | 156.3               | 121.4 | 78.7  | 29.7  | 6.5   | 2.8   | 67.8                | 92.9  | 140.2 | 241.2 | 0.0                 | 0.5       | 29.4      | 0.0       | 4.6       | 0.0      |
| 05               | 79.0      | 52.9      | 66.0 | 2.9                   | 3.7                   | 3.1                   | 346.8               | 291.5 | 215.0 | 108.9 | 37.9  | 20.8  | 7.4                 | 14.0  | 30.6  | 79.5  | 0.0                 | 1.2       | 31.0      | 0.0       | 0.1       | 0.0      |
| 06               | 85.9      | 61.6      | 73.8 | 2.8                   | 2.3                   | 2.2                   | 562.6               | 502.8 | 413.9 | 270.2 | 142.3 | 100.6 | 0.1                 | 0.4   | 1.5   | 7.7   | 0.0                 | 6.5       | 30.0      | 0.0       | 0.0       | 0.0      |
| 07               | 89.3      | 66.3      | 77.8 | 1.8                   | 2.1                   | 1.8                   | 706.7               | 644.7 | 551.7 | 397.0 | 244.7 | 187.0 | 0.0                 | 0.0   | 0.0   | 0.3   | 0.2                 | 12.8      | 31.0      | 0.0       | 0.0       | 0.0      |
| 08               | 87.9      | 64.1      | 76.0 | 2.9                   | 2.4                   | 2.3                   | 650.9               | 588.9 | 496.0 | 341.6 | 194.5 | 142.0 | 0.0                 | 0.0   | 0.0   | 0.7   | 0.1                 | 9.2       | 31.0      | 0.0       | 0.0       | 0.0      |
| 09               | 82.2      | 57.3      | 69.7 | 3.2                   | 2.9                   | 2.5                   | 443.6               | 384.9 | 300.1 | 172.7 | 74.1  | 46.5  | 1.2                 | 2.5   | 7.7   | 30.3  | 0.0                 | 3.5       | 30.0      | 0.0       | 0.0       | 0.0      |
| 10               | 73.0      | 44.5      | 58.8 | 2.4                   | 3.6                   | 2.5                   | 167.5               | 128.0 | 79.7  | 29.4  | 8.3   | 4.9   | 51.2                | 73.7  | 118.5 | 223.1 | 0.0                 | 0.2       | 30.8      | 0.0       | 4.0       | 0.0      |
| 11               | 63.0      | 33.8      | 48.4 | 4.4                   | 3.7                   | 3.5                   | 36.3                | 23.7  | 11.3  | 2.5   | 0.1   | 0.0   | 234.2               | 281.6 | 359.2 | 500.4 | 0.0                 | 0.0       | 26.3      | 0.0       | 15.5      | 0.0      |
| 12               | 54.6      | 28.6      | 41.6 | 4.3                   | 4.0                   | 3.9                   | 10.7                | 6.8   | 3.1   | 0.8   | 0.0   | 0.0   | 426.0               | 484.1 | 573.4 | 726.1 | 0.0                 | 0.0       | 19.4      | 0.3       | 22.0      | 0.0      |
| Summary          | 71.4      | 45.0      | 58.2 | 3.3                   | 3.2                   | 2.9                   | 3140                | 2732  | 2169  | 1357  | 709   | 505   | 1933                | 2256  | 2788  | 3801  | 0.3                 | 33.9      | 318.4     | 3.6       | 105.5     | 0.5      |

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

## Summary of Monthly Normals 1991-2020

Generated on 10/22/2021

| 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                  | 4.02   | 8.5                 | 6.3     | 2.8     | 1.0     | 2.91   | 4.00  | 5.00  |
| 02                  | 2.94   | 8.3                 | 5.7     | 2.1     | 0.7     | 2.16   | 2.56  | 3.44  |
| 03                  | 4.29   | 9.0                 | 6.9     | 3.1     | 1.3     | 3.27   | 3.92  | 5.44  |
| 04                  | 4.03   | 8.7                 | 6.3     | 3.1     | 1.2     | 2.84   | 3.71  | 5.09  |
| 05                  | 3.72   | 9.7                 | 5.9     | 2.9     | 1.1     | 2.30   | 3.18  | 4.37  |
| 06                  | 4.43   | 8.8                 | 6.5     | 2.8     | 1.3     | 1.84   | 3.33  | 6.67  |
| 07                  | 3.80   | 8.8                 | 6.5     | 3.2     | 1.1     | 3.04   | 3.80  | 4.54  |
| 08                  | 3.81   | 8.2                 | 5.9     | 2.8     | 1.1     | 2.72   | 3.58  | 4.84  |
| 09                  | 5.16   | 7.5                 | 5.5     | 2.6     | 1.4     | 2.31   | 4.49  | 6.62  |
| 10                  | 3.63   | 7.1                 | 5.1     | 2.4     | 1.2     | 2.63   | 3.16  | 4.38  |
| 11                  | 3.49   | 7.4                 | 5.2     | 2.6     | 1.0     | 2.25   | 3.30  | 4.84  |
| 12                  | 3.97   | 9.0                 | 6.3     | 3.1     | 1.2     | 2.56   | 3.54  | 5.31  |
| Summary             | 47.29  | 101.0               | 72.1    | 33.5    | 13.6    | 30.83  | 42.57 | 60.54 |

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**Summary of Monthly Normals**  
**1991-2020**  
 Generated on 10/22/2021

| 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         | 1.7              | 0.4                    | 0.2 | 0.1 | 0.1  | 0.1   | 0.1                      | 0.1 | 0.1 | 0.0 | 0.0   | 0.0 | 0.9 |
| 02         | 0.7              | 0.7                    | 0.2 | 0.0 | 0.0  | 0.0   | 0.5                      | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.5 |
| 03         | 0.3              | 0.2                    | 0.2 | 0.1 | 0.1  | 0.0   | 0.2                      | 0.2 | 0.1 | 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         | 0.7              | 0.4                    | 0.2 | 0.1 | 0.1  | 0.0   | 1.0                      | 0.4 | 0.3 | 0.0 | 0.0   | 0.0 | 0.0 |
| Summary    | 3.4              | 1.7                    | 0.8 | 0.3 | 0.3  | 0.1   | 1.8                      | 0.7 | 0.5 | 0.0 | 0.0   | 0.0 | 1.4 |

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## Summary of Monthly Normals 1991-2020

Generated on 10/22/2021

| <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   | 101.3      | 117.1      | 290.6      | 540.0      | 804.5      | 1012.5     | 1171.7     | 1115.9     | 892.4      | 581.7      | 272.8      | 133.7      |
| 45   | 46.9       | 56.4       | 179.2      | 396.9      | 649.6      | 862.5      | 1016.7     | 960.9      | 742.4      | 430.0      | 162.4      | 65.0       |
| 50   | 17.9       | 22.7       | 97.2       | 265.3      | 495.6      | 712.5      | 861.7      | 805.9      | 592.5      | 288.0      | 84.5       | 28.7       |
| 55   | 5.8        | 7.6        | 45.0       | 156.3      | 346.8      | 562.6      | 706.7      | 650.9      | 443.6      | 167.5      | 36.3       | 10.7       |
| 60   | 1.6        | 1.6        | 16.6       | 78.7       | 215.0      | 413.9      | 551.7      | 496.0      | 300.1      | 79.7       | 11.3       | 3.1        |
| <b>Growing Degree Units for Corn (Monthly)</b> |            |            |            |            |            |            |            |            |            |            |            |            |
| 50/86  | 79.0       | 103.4      | 209.3      | 359.7      | 522.3      | 679.5      | 798.1      | 755.0      | 587.5      | 379.9      | 204.3      | 105.9      |

| <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   | 101        | 218        | 509        | 1049       | 1854       | 2866       | 4038       | 5154       | 6046       | 6628       | 6900       | 7034       |
| 45   | 47         | 103        | 282        | 679        | 1329       | 2192       | 3208       | 4169       | 4911       | 5341       | 5504       | 5569       |
| 50   | 18         | 41         | 138        | 403        | 899        | 1611       | 2473       | 3279       | 3871       | 4159       | 4244       | 4272       |
| 55   | 6          | 13         | 58         | 215        | 562        | 1124       | 1831       | 2482       | 2925       | 3093       | 3129       | 3140       |
| 60   | 2          | 3          | 20         | 98         | 314        | 727        | 1279       | 1775       | 2075       | 2155       | 2166       | 2169       |
| <b>Growing Degree Units for Corn (Monthly Accumulated)</b> |            |            |            |            |            |            |            |            |            |            |            |            |
| 50/86  | 79         | 182        | 392        | 751        | 1274       | 1953       | 2751       | 3506       | 4094       | 4474       | 4678       | 4784       |

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

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