

## Summary of Monthly Normals 1991-2020

Generated on 11/27/2021

| 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               | 43.2      | 25.1      | 34.1 | 4.2                   | 4.0                   | 4.0                   | 1.3                 | 0.6   | 0.1   | 0.0   | 0.0   | 0.0   | 647.5               | 708.9 | 801.4 | 956.2 | 0.0                 | 0.0       | 8.6       | 5.4       | 23.6      | 0.2      |
| 02               | 45.8      | 26.2      | 36.0 | 4.7                   | 4.0                   | 4.2                   | 2.2                 | 1.1   | 0.3   | 0.0   | 0.0   | 0.0   | 534.1               | 589.1 | 672.2 | 811.9 | 0.0                 | 0.0       | 9.5       | 2.7       | 21.5      | 0.2      |
| 03               | 52.6      | 32.6      | 42.6 | 3.7                   | 3.4                   | 3.4                   | 13.6                | 8.5   | 3.9   | 0.7   | 0.0   | 0.0   | 397.9               | 454.9 | 543.3 | 695.0 | 0.0                 | 0.0       | 17.6      | 0.5       | 16.6      | 0.0      |
| 04               | 63.3      | 41.7      | 52.5 | 2.5                   | 2.4                   | 2.3                   | 72.9                | 53.3  | 31.6  | 11.7  | 3.5   | 2.1   | 147.9               | 188.3 | 256.6 | 386.7 | 0.0                 | 0.2       | 27.3      | 0.0       | 4.8       | 0.0      |
| 05               | 72.5      | 51.4      | 61.9 | 3.2                   | 3.6                   | 3.2                   | 237.1               | 190.2 | 130.6 | 60.8  | 22.7  | 14.1  | 21.6                | 36.7  | 70.1  | 155.4 | 0.0                 | 1.2       | 31.0      | 0.0       | 0.2       | 0.0      |
| 06               | 81.5      | 61.3      | 71.4 | 2.4                   | 2.2                   | 2.1                   | 492.7               | 433.7 | 347.2 | 214.5 | 108.9 | 76.2  | 0.7                 | 1.8   | 5.3   | 22.5  | 0.0                 | 4.4       | 30.0      | 0.0       | 0.0       | 0.0      |
| 07               | 86.6      | 67.2      | 76.9 | 2.5                   | 2.4                   | 2.3                   | 678.8               | 616.8 | 523.7 | 369.0 | 221.0 | 168.9 | 0.0                 | 0.0   | 0.0   | 0.2   | 0.4                 | 9.7       | 31.0      | 0.0       | 0.0       | 0.0      |
| 08               | 84.8      | 65.2      | 75.0 | 2.4                   | 2.7                   | 2.4                   | 619.9               | 557.9 | 465.0 | 311.1 | 170.7 | 123.5 | 0.0                 | 0.0   | 0.1   | 1.2   | 0.1                 | 5.7       | 31.0      | 0.0       | 0.0       | 0.0      |
| 09               | 78.5      | 58.2      | 68.4 | 2.4                   | 2.9                   | 2.3                   | 403.1               | 345.8 | 262.9 | 143.5 | 60.2  | 38.7  | 2.7                 | 5.3   | 12.5  | 43.1  | 0.0                 | 1.3       | 30.0      | 0.0       | 0.0       | 0.0      |
| 10               | 67.7      | 46.4      | 57.1 | 2.2                   | 3.5                   | 2.7                   | 136.8               | 103.5 | 64.2  | 23.4  | 6.3   | 3.3   | 73.2                | 101.9 | 155.6 | 269.8 | 0.0                 | 0.1       | 30.7      | 0.0       | 1.8       | 0.0      |
| 11               | 57.1      | 36.6      | 46.8 | 3.5                   | 2.9                   | 3.0                   | 27.2                | 17.6  | 7.9   | 1.1   | 0.0   | 0.0   | 271.7               | 322.1 | 402.4 | 545.6 | 0.0                 | 0.0       | 23.8      | 0.0       | 11.4      | 0.0      |
| 12               | 48.1      | 29.4      | 38.7 | 4.3                   | 4.0                   | 4.1                   | 5.5                 | 2.9   | 1.1   | 0.1   | 0.0   | 0.0   | 509.2               | 568.7 | 659.8 | 813.8 | 0.0                 | 0.0       | 13.4      | 1.9       | 21.4      | 0.0      |
| Summary          | 65.1      | 45.1      | 55.1 | 3.2                   | 3.2                   | 3.0                   | 2691                | 2332  | 1839  | 1136  | 593   | 427   | 2606                | 2978  | 3579  | 4701  | 0.5                 | 22.6      | 283.9     | 10.5      | 101.3     | 0.4      |

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                  | 3.38   | 10.8                | 6.3     | 2.4     | 0.8     | 2.66   | 3.22  | 4.10  |
| 02                  | 3.23   | 10.4                | 6.2     | 2.3     | 0.8     | 2.17   | 2.91  | 4.41  |
| 03                  | 4.52   | 10.9                | 7.3     | 3.3     | 1.2     | 3.31   | 4.54  | 5.48  |
| 04                  | 3.32   | 11.4                | 6.4     | 2.0     | 0.9     | 2.68   | 3.25  | 4.05  |
| 05                  | 3.34   | 10.5                | 6.4     | 2.5     | 0.7     | 2.25   | 3.26  | 3.74  |
| 06                  | 3.58   | 9.9                 | 5.8     | 2.2     | 0.9     | 2.22   | 2.87  | 4.90  |
| 07                  | 4.47   | 9.9                 | 6.1     | 2.7     | 1.3     | 3.19   | 4.13  | 5.27  |
| 08                  | 4.59   | 9.2                 | 5.8     | 2.6     | 1.3     | 2.08   | 3.60  | 6.11  |
| 09                  | 3.55   | 8.5                 | 5.6     | 2.1     | 1.0     | 1.77   | 3.48  | 5.01  |
| 10                  | 4.14   | 8.9                 | 6.1     | 3.0     | 1.4     | 3.02   | 3.86  | 5.44  |
| 11                  | 3.37   | 8.9                 | 5.6     | 2.4     | 1.0     | 1.41   | 3.09  | 4.50  |
| 12                  | 4.47   | 10.8                | 7.2     | 3.4     | 1.3     | 2.61   | 4.23  | 5.98  |
| Summary             | 45.96  | 120.1               | 74.8    | 30.9    | 12.6    | 29.37  | 42.44 | 58.99 |

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**Summary of Monthly Normals**  
**1991-2020**  
 Generated on 11/27/2021

| 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         | 5.7              | 3.0                    | 1.6 | 0.5 | 0.3  | 0.1   | 3.6                      | 1.6 | 0.6 | 0.2 | 2.2   | 3.7 | 7.7  |
| 02         | 5.9              | 3.2                    | 1.6 | 0.6 | 0.2  | 0.1   | 3.6                      | 1.5 | 0.8 | 0.4 | 1.1   | 3.4 | 6.2  |
| 03         | 2.2              | 1.2                    | 0.6 | 0.3 | 0.1  | 0.0   | 1.3                      | 0.6 | 0.2 | 0.0 | 0.0   | 0.2 | 2.9  |
| 04         | 0.3              | 0.1                    | 0.1 | 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         | 0.1              | 0.0                    | 0.0 | 0.0 | 0.0  | 0.0   | 0.1                      | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  |
| 12         | 3.2              | 1.4                    | 0.7 | 0.4 | 0.1  | 0.1   | 1.3                      | 0.8 | 0.6 | 0.3 | 0.0   | 0.6 | 4.8  |
| Summary    | 17.4             | 8.9                    | 4.6 | 1.8 | 0.7  | 0.3   | 9.9                      | 4.5 | 2.2 | 0.9 | 3.3   | 7.9 | 21.6 |

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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   | 52.8       | 56.3       | 154.7      | 379.1      | 680.5      | 941.9      | 1143.7     | 1084.9     | 850.4      | 529.0      | 235.1      | 93.8       |
| 45   | 21.7       | 24.5       | 79.6       | 247.0      | 525.6      | 791.9      | 988.8      | 929.9      | 700.4      | 378.5      | 133.6      | 44.4       |
| 50   | 7.0        | 8.1        | 35.4       | 142.1      | 373.2      | 642.0      | 833.8      | 774.9      | 550.7      | 243.0      | 66.1       | 18.6       |
| 55   | 1.3        | 2.2        | 13.6       | 72.9       | 237.1      | 492.7      | 678.8      | 619.9      | 403.1      | 136.8      | 27.2       | 5.5        |
| 60   | 0.1        | 0.3        | 3.9        | 31.6       | 130.6      | 347.2      | 523.7      | 465.0      | 262.9      | 64.2       | 7.9        | 1.1        |
| <b>Growing Degree Units for Corn (Monthly)</b> |            |            |            |            |            |            |            |            |            |            |            |            |
| 50/86  | 26.8       | 34.3       | 85.9       | 215.1      | 407.3      | 626.9      | 790.9      | 748.7      | 554.9      | 313.0      | 131.7      | 48.9       |

| <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   | 53         | 109        | 264        | 643        | 1323       | 2265       | 3409       | 4494       | 5344       | 5873       | 6108       | 6202       |
| 45   | 22         | 46         | 126        | 373        | 898        | 1690       | 2679       | 3609       | 4309       | 4688       | 4822       | 4866       |
| 50   | 7          | 15         | 50         | 193        | 566        | 1208       | 2042       | 2816       | 3367       | 3610       | 3676       | 3695       |
| 55   | 1          | 4          | 17         | 90         | 327        | 820        | 1499       | 2118       | 2522       | 2658       | 2686       | 2691       |
| 60   | 0          | 0          | 4          | 36         | 166        | 514        | 1037       | 1502       | 1765       | 1830       | 1837       | 1839       |
| <b>Growing Degree Units for Corn (Monthly Accumulated)</b> |            |            |            |            |            |            |            |            |            |            |            |            |
| 50/86  | 27         | 61         | 147        | 362        | 769        | 1396       | 2187       | 2936       | 3491       | 3804       | 3936       | 3984       |

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

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