

Summary of Monthly Normals  
1991-2020

Generated on 06/03/2024

Current Location: Elev: 1195 ft. Lat: 45.6772° N Lon: 94.8019° W

Station: MELROSE, MN US USC00215325

| 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               | 19.5      | 0.1       | 9.8  | 5.7                   | 6.8                   | 6.2                   | 0.0                 | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 1400.8              | 1462.9 | 1555.9 | 1711.0 | 0.0                 | 0.0       | 0.0       | 25.5      | 30.9      | 15.9     |
| 02               | 24.6      | 3.4       | 14.0 | 6.1                   | 7.9                   | 6.9                   | 0.0                 | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 1147.7              | 1203.8 | 1287.8 | 1427.9 | 0.0                 | 0.0       | 0.6       | 19.5      | 27.6      | 11.5     |
| 03               | 37.2      | 17.1      | 27.2 | 6.0                   | 5.9                   | 5.9                   | 1.2                 | 0.7   | 0.3   | 0.0   | 0.0  | 0.0  | 864.6               | 926.1  | 1018.7 | 1173.4 | 0.0                 | 0.0       | 5.6       | 8.7       | 27.5      | 3.7      |
| 04               | 53.0      | 30.9      | 41.9 | 5.1                   | 3.8                   | 4.3                   | 11.3                | 7.0   | 3.0   | 0.4   | 0.1  | 0.0  | 402.8               | 458.5  | 544.5  | 691.9  | 0.0                 | 0.0       | 19.4      | 1.1       | 16.2      | 0.1      |
| 05               | 66.7      | 44.9      | 55.8 | 3.8                   | 3.0                   | 3.2                   | 126.0               | 96.0  | 61.1  | 24.5  | 6.6  | 3.4  | 101.3               | 133.3  | 191.4  | 309.7  | 0.0                 | 0.5       | 29.6      | 0.0       | 2.4       | 0.0      |
| 06               | 76.6      | 56.3      | 66.5 | 2.4                   | 2.5                   | 2.3                   | 348.4               | 292.9 | 215.2 | 106.1 | 38.1 | 22.8 | 5.1                 | 9.6    | 21.9   | 62.7   | 0.0                 | 2.1       | 30.0      | 0.0       | 0.0       | 0.0      |
| 07               | 80.9      | 60.0      | 70.4 | 3.1                   | 2.8                   | 2.8                   | 478.8               | 417.3 | 326.1 | 184.0 | 76.9 | 48.2 | 0.0                 | 0.4    | 2.2    | 15.1   | 0.1                 | 3.7       | 31.0      | 0.0       | 0.0       | 0.0      |
| 08               | 78.6      | 57.6      | 68.1 | 2.4                   | 2.5                   | 2.3                   | 406.9               | 346.4 | 258.5 | 130.8 | 46.5 | 26.4 | 1.0                 | 2.5    | 7.5    | 34.8   | 0.0                 | 1.8       | 31.0      | 0.0       | 0.0       | 0.0      |
| 09               | 70.2      | 47.9      | 59.0 | 3.1                   | 3.0                   | 2.8                   | 174.4               | 136.0 | 87.8  | 35.7  | 10.2 | 5.1  | 53.1                | 74.6   | 116.4  | 214.2  | 0.0                 | 0.4       | 29.8      | 0.0       | 1.0       | 0.0      |
| 10               | 55.6      | 34.7      | 45.1 | 4.1                   | 3.1                   | 3.2                   | 26.7                | 17.8  | 8.5   | 1.7   | 0.1  | 0.0  | 332.1               | 385.2  | 468.9  | 617.1  | 0.0                 | 0.0       | 21.7      | 0.3       | 12.2      | 0.0      |
| 11               | 38.6      | 21.3      | 30.0 | 6.7                   | 5.1                   | 5.7                   | 0.8                 | 0.4   | 0.1   | 0.0   | 0.0  | 0.0  | 752.3               | 811.9  | 901.6  | 1051.5 | 0.0                 | 0.0       | 6.0       | 8.5       | 26.2      | 1.1      |
| 12               | 25.0      | 8.1       | 16.5 | 5.6                   | 6.0                   | 5.7                   | 0.0                 | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 1191.7              | 1253.8 | 1346.8 | 1501.9 | 0.0                 | 0.0       | 0.4       | 21.0      | 30.8      | 9.1      |
| Summary          | 52.2      | 31.9      | 42.0 | 4.5                   | 4.4                   | 4.3                   | 1574                | 1314  | 961   | 483   | 178  | 106  | 6252                | 6723   | 7464   | 8811   | 0.1                 | 8.5       | 205.1     | 84.6      | 174.8     | 41.4     |

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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                  | 0.68   | 4.8                 | 2.4     | 0.1     | 0.1     | 0.21                                                                                                                   | 0.59  | 1.07  |
| 02                  | 0.71   | 4.3                 | 2.3     | 0.3     | 0.0     | 0.40                                                                                                                   | 0.66  | 0.90  |
| 03                  | 1.43   | 5.6                 | 3.7     | 0.9     | 0.3     | 0.86                                                                                                                   | 1.19  | 1.94  |
| 04                  | 2.61   | 7.8                 | 5.5     | 1.6     | 0.5     | 1.54                                                                                                                   | 2.33  | 3.01  |
| 05                  | 3.61   | 10.2                | 7.3     | 2.9     | 0.8     | 2.38                                                                                                                   | 3.20  | 4.88  |
| 06                  | 4.22   | 10.5                | 7.7     | 2.6     | 0.8     | 2.89                                                                                                                   | 4.08  | 4.94  |
| 07                  | 4.34   | 9.9                 | 6.7     | 2.7     | 1.3     | 2.87                                                                                                                   | 3.89  | 5.84  |
| 08                  | 3.76   | 8.4                 | 5.9     | 2.7     | 1.0     | 2.13                                                                                                                   | 3.44  | 5.22  |
| 09                  | 2.78   | 8.3                 | 5.4     | 2.0     | 0.6     | 1.34                                                                                                                   | 2.44  | 3.55  |
| 10                  | 2.84   | 8.3                 | 5.8     | 1.7     | 0.6     | 1.09                                                                                                                   | 2.70  | 4.17  |
| 11                  | 1.21   | 4.9                 | 2.9     | 0.8     | 0.2     | 0.56                                                                                                                   | 1.12  | 1.56  |
| 12                  | 0.89   | 5.5                 | 2.9     | 0.2     | 0.0     | 0.29                                                                                                                   | 0.84  | 1.31  |
| Summary             | 29.08  | 88.5                | 58.5    | 18.5    | 6.2     | 16.56                                                                                                                  | 26.48 | 38.39 |

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U.S. Department of Commerce  
National Oceanic & Atmospheric Administration  
National Environmental Satellite, Data, and Information Service

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Summary of Monthly Normals  
1991-2020  
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National Centers for Environmental Information  
151 Patton Avenue  
Asheville, North Carolina 28801

| 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         | 5.00             | 4.5                    | 3.5  | 1.0 | 0.4  | 0.1   |                          |     |     |     | 1.40                                                                                              | 2.70 | 7.40  |
| 02         | 9.00             | 3.9                    | 3.0  | 1.1 | 0.4  | 0.0   |                          |     |     |     | 4.40                                                                                              | 7.50 | 11.80 |
| 03         | 7.20             | 2.9                    | 2.2  | 0.9 | 0.5  | 0.0   |                          |     |     |     | 3.50                                                                                              | 6.80 | 10.40 |
| 04         | 5.10             | 1.5                    | 1.3  | 0.7 | 0.4  | 0.0   |                          |     |     |     | 0.00                                                                                              | 1.00 | 8.20  |
| 05         | 0.20             | 0.1                    | 0.1  | 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   |                          |     |     |     | 0.00                                                                                              | 0.00 | 0.00  |
| 07         | 0.00             | 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   |                          |     |     |     | 0.00                                                                                              | 0.00 | 0.00  |
| 09         | 0.00             | 0.0                    | 0.0  | 0.0 | 0.0  | 0.0   |                          |     |     |     | 0.00                                                                                              | 0.00 | 0.00  |
| 10         | 0.40             | 0.3                    | 0.2  | 0.1 | 0.0  | 0.0   |                          |     |     |     | 0.00                                                                                              | 0.00 | 0.00  |
| 11         | 4.00             | 2.0                    | 1.6  | 0.8 | 0.3  | 0.0   |                          |     |     |     | 0.00                                                                                              | 3.00 | 5.00  |
| 12         | 8.10             | 4.8                    | 3.7  | 1.5 | 0.5  | 0.0   |                          |     |     |     | 3.50                                                                                              | 7.00 | 11.50 |
| Summary    | 39.0             | 20.0                   | 15.6 | 6.1 | 2.5  | 0.1   | 0.0                      | 0.0 | 0.0 | 0.0 | 12.8                                                                                              | 28.0 | 54.3  |

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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                                      | 0.0 | 1.3 | 24.3 | 152.1 | 493.4 | 793.2 | 943.7 | 870.8 | 572.0 | 215.9 | 28.5 | 0.5 |
| 45                                      | 0.0 | 0.2 | 10.2 | 78.3  | 350.3 | 643.2 | 788.7 | 715.8 | 425.7 | 123.5 | 10.9 | 0.0 |
| 50                                      | 0.0 | 0.0 | 3.8  | 32.8  | 224.3 | 494.0 | 633.8 | 561.0 | 290.0 | 61.9  | 3.4  | 0.0 |
| 55                                      | 0.0 | 0.0 | 1.2  | 11.3  | 126.0 | 348.4 | 478.8 | 406.9 | 174.4 | 26.7  | 0.8  | 0.0 |
| 60                                      | 0.0 | 0.0 | 0.3  | 3.0   | 61.1  | 215.2 | 326.1 | 258.5 | 87.8  | 8.5   | 0.1  | 0.0 |
| Growing Degree Units for Corn (Monthly) |     |     |      |       |       |       |       |       |       |       |      |     |
| 50/86                                   | 0.0 | 0.9 | 17.8 | 100.1 | 287.4 | 498.1 | 625.0 | 561.0 | 340.5 | 128.9 | 19.1 | 0.4 |

| Growing Degree Units (Accumulated Monthly)          |   |   |    |     |     |      |      |      |      |      |      |      |
|-----------------------------------------------------|---|---|----|-----|-----|------|------|------|------|------|------|------|
| 40                                                  | 0 | 1 | 26 | 178 | 671 | 1464 | 2408 | 3279 | 3851 | 4067 | 4095 | 4096 |
| 45                                                  | 0 | 0 | 10 | 89  | 439 | 1082 | 1871 | 2587 | 3012 | 3136 | 3147 | 3147 |
| 50                                                  | 0 | 0 | 4  | 37  | 261 | 755  | 1389 | 1950 | 2240 | 2302 | 2305 | 2305 |
| 55                                                  | 0 | 0 | 1  | 12  | 138 | 487  | 966  | 1373 | 1547 | 1574 | 1574 | 1574 |
| 60                                                  | 0 | 0 | 0  | 3   | 64  | 280  | 606  | 864  | 952  | 960  | 961  | 961  |
| Growing Degree Units for Corn (Monthly Accumulated) |   |   |    |     |     |      |      |      |      |      |      |      |
| 50/86                                               | 0 | 1 | 19 | 119 | 406 | 904  | 1529 | 2090 | 2431 | 2560 | 2579 | 2579 |

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.