

Summary of Monthly Normals  
1991-2020

Generated on 04/27/2024

Current Location: Elev: 1018 ft. Lat: 45.8081° N Lon: 96.5042° W

Station: WHEATON, MN US USC00218907

| 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               | 20.1      | 2.7       | 11.4 | 6.0                   | 6.7                   | 6.2                   | 0.0                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 1351.2              | 1413.3 | 1506.4 | 1661.4 | 0.0                 | 0.0       | 0.1       | 24.0      | 30.9      | 14.3     |
| 02               | 24.9      | 6.0       | 15.5 | 7.2                   | 7.9                   | 7.5                   | 0.0                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 1107.2              | 1163.2 | 1247.3 | 1387.3 | 0.0                 | 0.0       | 1.2       | 18.7      | 27.3      | 10.8     |
| 03               | 38.2      | 19.7      | 28.9 | 6.6                   | 5.8                   | 6.1                   | 1.1                 | 0.6   | 0.3   | 0.0   | 0.0   | 0.0  | 808.7               | 870.2  | 962.8  | 1117.6 | 0.0                 | 0.0       | 6.8       | 9.6       | 26.2      | 3.2      |
| 04               | 54.5      | 33.2      | 43.9 | 5.5                   | 3.5                   | 4.3                   | 18.3                | 11.5  | 5.5   | 1.4   | 0.3   | 0.1  | 352.8               | 406.0  | 490.0  | 635.9  | 0.0                 | 0.2       | 20.1      | 1.4       | 13.8      | 0.0      |
| 05               | 68.5      | 46.9      | 57.7 | 3.4                   | 2.7                   | 2.8                   | 163.6               | 127.7 | 83.6  | 35.5  | 10.9  | 6.1  | 80.1                | 106.0  | 155.0  | 261.9  | 0.0                 | 1.0       | 29.2      | 0.0       | 1.4       | 0.0      |
| 06               | 78.2      | 58.6      | 68.4 | 2.8                   | 2.4                   | 2.5                   | 404.3               | 346.9 | 264.7 | 144.9 | 59.3  | 38.0 | 2.5                 | 5.1    | 12.9   | 43.0   | 0.0                 | 2.5       | 30.0      | 0.0       | 0.0       | 0.0      |
| 07               | 82.4      | 62.4      | 72.4 | 3.1                   | 2.4                   | 2.6                   | 539.3               | 477.3 | 385.3 | 238.2 | 113.5 | 75.7 | 0.0                 | 0.0    | 0.9    | 8.9    | 0.1                 | 4.5       | 31.0      | 0.0       | 0.0       | 0.0      |
| 08               | 80.6      | 59.7      | 70.1 | 2.8                   | 2.3                   | 2.5                   | 469.9               | 408.7 | 319.4 | 181.7 | 77.8  | 48.6 | 0.4                 | 1.2    | 4.8    | 22.1   | 0.1                 | 2.8       | 31.0      | 0.0       | 0.0       | 0.0      |
| 09               | 72.9      | 50.2      | 61.5 | 3.2                   | 2.7                   | 2.7                   | 229.7               | 186.1 | 129.3 | 59.2  | 20.3  | 11.5 | 33.4                | 49.7   | 82.9   | 162.8  | 0.0                 | 1.3       | 29.8      | 0.0       | 0.2       | 0.0      |
| 10               | 57.7      | 36.7      | 47.2 | 4.5                   | 3.1                   | 3.5                   | 39.6                | 28.0  | 16.0  | 4.8   | 0.7   | 0.2  | 281.4               | 331.8  | 412.8  | 556.6  | 0.0                 | 0.1       | 22.7      | 0.3       | 10.2      | 0.0      |
| 11               | 40.5      | 22.8      | 31.6 | 7.3                   | 5.3                   | 6.1                   | 1.1                 | 0.5   | 0.0   | 0.0   | 0.0   | 0.0  | 701.6               | 760.9  | 850.5  | 1000.5 | 0.0                 | 0.0       | 7.7       | 8.4       | 24.7      | 0.8      |
| 12               | 25.6      | 9.9       | 17.7 | 6.3                   | 6.2                   | 6.1                   | 0.0                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 1154.5              | 1216.5 | 1309.6 | 1464.6 | 0.0                 | 0.0       | 0.8       | 20.5      | 30.9      | 8.0      |
| Summary          | 53.7      | 34.1      | 43.9 | 4.9                   | 4.2                   | 4.4                   | 1867                | 1587  | 1204  | 666   | 283   | 180  | 5874                | 6324   | 7036   | 8323   | 0.2                 | 12.4      | 210.4     | 82.9      | 165.6     | 37.1     |

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1991-2020  
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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                  | 0.78   | 5.5                 | 2.5     | 0.3     | 0.1     | 0.35                                                                                                                   | 0.66  | 1.18  |  |
| 02                  | 0.71   | 4.7                 | 2.3     | 0.2     | 0.0     | 0.37                                                                                                                   | 0.64  | 1.05  |  |
| 03                  | 1.18   | 5.6                 | 2.9     | 0.6     | 0.2     | 0.54                                                                                                                   | 1.12  | 1.54  |  |
| 04                  | 2.30   | 6.9                 | 4.5     | 1.8     | 0.4     | 1.47                                                                                                                   | 1.89  | 3.02  |  |
| 05                  | 2.80   | 9.3                 | 6.2     | 1.8     | 0.5     | 1.64                                                                                                                   | 2.33  | 3.94  |  |
| 06                  | 4.22   | 10.3                | 7.4     | 2.5     | 1.0     | 2.88                                                                                                                   | 3.96  | 4.76  |  |
| 07                  | 3.52   | 9.6                 | 6.1     | 2.3     | 1.1     | 2.19                                                                                                                   | 3.32  | 4.84  |  |
| 08                  | 2.72   | 7.9                 | 5.0     | 1.9     | 0.7     | 1.89                                                                                                                   | 2.86  | 3.63  |  |
| 09                  | 2.90   | 7.4                 | 4.9     | 2.0     | 0.9     | 1.18                                                                                                                   | 2.44  | 3.71  |  |
| 10                  | 2.27   | 7.9                 | 4.7     | 1.5     | 0.5     | 0.83                                                                                                                   | 2.03  | 3.18  |  |
| 11                  | 1.08   | 4.6                 | 2.5     | 0.5     | 0.2     | 0.23                                                                                                                   | 0.72  | 1.65  |  |
| 12                  | 0.82   | 5.6                 | 2.7     | 0.2     | 0.0     | 0.34                                                                                                                   | 0.84  | 1.19  |  |
| Summary             | 25.30  | 85.3                | 51.7    | 15.6    | 5.6     | 13.91                                                                                                                  | 22.81 | 33.69 |  |

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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         | 8.00             | 5.3                    | 3.1  | 1.0 | 0.3  | 0.1   | 29.1                     | 22.8 | 17.0 | 6.6  | 3.10                                                                                              | 7.20 | 10.60 |
| 02         | 9.00             | 4.3                    | 2.7  | 0.9 | 0.4  | 0.1   | 24.3                     | 18.9 | 14.9 | 7.5  | 3.70                                                                                              | 7.20 | 14.00 |
| 03         | 7.10             | 3.1                    | 2.4  | 0.8 | 0.3  | 0.1   | 18.3                     | 13.7 | 10.7 | 7.1  | 2.20                                                                                              | 4.00 | 11.40 |
| 04         | 5.30             | 1.7                    | 1.3  | 0.7 | 0.4  | 0.0   | 4.5                      | 3.0  | 1.1  | 0.2  | 0.00                                                                                              | 5.00 | 8.80  |
| 05         | 0.00             | 0.0                    | 0.0  | 0.0 | 0.0  | 0.0   | 0.0                      | 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   | 0.0                      | 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   | 0.0                      | 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   | 0.0                      | 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   | 0.0                      | 0.0  | 0.0  | 0.0  | 0.00                                                                                              | 0.00 | 0.00  |
| 10         | 1.00             | 0.8                    | 0.5  | 0.1 | 0.0  | 0.0   | 0.6                      | 0.3  | 0.1  | 0.0  | 0.00                                                                                              | 0.00 | 1.00  |
| 11         | 3.90             | 2.2                    | 1.4  | 0.5 | 0.2  | 0.0   | 3.2                      | 0.7  | 0.5  | 0.0  | 0.00                                                                                              | 1.80 | 5.90  |
| 12         | 8.60             | 5.2                    | 3.0  | 1.0 | 0.4  | 0.0   | 18.7                     | 13.3 | 8.3  | 2.2  | 2.50                                                                                              | 5.00 | 12.40 |
| Summary    | 42.9             | 22.6                   | 14.4 | 5.0 | 2.0  | 0.3   | 98.7                     | 72.7 | 52.6 | 23.6 | 11.5                                                                                              | 30.2 | 64.1  |

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Current Location: Elev: 1018 ft. Lat: 45.8081° N Lon: 96.5042° W

Station: WHEATON, MN US USC00218907

| 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                                      | 0.3 | 2.6 | 34.9 | 192.3 | 551.4 | 851.8 | 1004.2 | 934.5 | 646.5 | 266.3 | 45.3 | 0.7 |
| 45                                      | 0.0 | 0.6 | 13.8 | 106.9 | 406.3 | 701.6 | 849.1  | 779.4 | 497.9 | 160.6 | 19.1 | 0.0 |
| 50                                      | 0.0 | 0.1 | 4.4  | 50.0  | 275.0 | 552.1 | 694.2  | 624.5 | 356.4 | 85.5  | 6.3  | 0.0 |
| 55                                      | 0.0 | 0.0 | 1.1  | 18.3  | 163.6 | 404.3 | 539.3  | 469.9 | 229.7 | 39.6  | 1.1  | 0.0 |
| 60                                      | 0.0 | 0.0 | 0.3  | 5.5   | 83.6  | 264.7 | 385.3  | 319.4 | 129.3 | 16.0  | 0.0  | 0.0 |
| Growing Degree Units for Corn (Monthly) |     |     |      |       |       |       |        |       |       |       |      |     |
| 50/86                                   | 0.4 | 2.3 | 25.7 | 122.2 | 322.5 | 546.2 | 676.6  | 614.0 | 390.4 | 156.5 | 31.1 | 1.2 |

| Growing Degree Units (Accumulated Monthly)          |   |   |    |     |     |      |      |      |      |      |      |      |
|-----------------------------------------------------|---|---|----|-----|-----|------|------|------|------|------|------|------|
| 40                                                  | 0 | 3 | 38 | 230 | 782 | 1633 | 2638 | 3572 | 4218 | 4485 | 4530 | 4531 |
| 45                                                  | 0 | 1 | 14 | 121 | 528 | 1229 | 2078 | 2858 | 3356 | 3516 | 3535 | 3535 |
| 50                                                  | 0 | 0 | 4  | 54  | 330 | 882  | 1576 | 2200 | 2557 | 2642 | 2649 | 2649 |
| 55                                                  | 0 | 0 | 1  | 19  | 183 | 587  | 1127 | 1596 | 1826 | 1866 | 1867 | 1867 |
| 60                                                  | 0 | 0 | 0  | 6   | 89  | 354  | 739  | 1059 | 1188 | 1204 | 1204 | 1204 |
| Growing Degree Units for Corn (Monthly Accumulated) |   |   |    |     |     |      |      |      |      |      |      |      |
| 50/86                                               | 0 | 3 | 28 | 151 | 473 | 1019 | 1696 | 2310 | 2700 | 2857 | 2888 | 2889 |

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

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