

Summary of Monthly Normals  
1991-2020

Current Location: Elev: 4670 ft. Lat: 42.4244° N Lon: 103.7347° W  
Station: AGATE 3 E, NE US USC00250030  
Generated on 05/29/2024

| 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               | 40.5      | 11.0      | 25.7 | 3.9                   | 3.3                   | 3.4                   | 0.0                 | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 906.8               | 968.8 | 1061.8 | 1216.8 | 0.0                 | 0.0       | 6.4       | 7.2       | 30.6      | 6.6      |
| 02               | 42.7      | 12.9      | 27.8 | 6.4                   | 4.7                   | 5.4                   | 0.0                 | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 761.3               | 817.4 | 901.4  | 1041.4 | 0.0                 | 0.0       | 8.8       | 5.9       | 27.5      | 4.1      |
| 03               | 53.6      | 21.4      | 37.5 | 5.8                   | 3.4                   | 4.4                   | 2.4                 | 1.2   | 0.2   | 0.0   | 0.0  | 0.0  | 545.1               | 605.8 | 697.8  | 852.6  | 0.0                 | 0.0       | 20.1      | 2.4       | 28.1      | 1.2      |
| 04               | 61.3      | 29.2      | 45.3 | 3.7                   | 2.3                   | 2.6                   | 13.4                | 7.0   | 2.4   | 0.2   | 0.0  | 0.0  | 305.8               | 359.5 | 444.8  | 592.7  | 0.0                 | 0.0       | 24.6      | 0.7       | 20.3      | 0.1      |
| 05               | 70.2      | 39.0      | 54.6 | 4.3                   | 2.3                   | 2.8                   | 99.1                | 70.6  | 39.0  | 10.6  | 1.4  | 0.4  | 111.6               | 145.0 | 206.4  | 333.0  | 0.0                 | 0.5       | 29.7      | 0.0       | 7.5       | 0.0      |
| 06               | 81.2      | 48.2      | 64.7 | 4.1                   | 2.5                   | 2.9                   | 301.0               | 248.4 | 175.5 | 79.1  | 23.7 | 12.8 | 10.1                | 17.5  | 34.5   | 88.2   | 0.1                 | 4.7       | 29.9      | 0.0       | 1.0       | 0.0      |
| 07               | 88.7      | 53.7      | 71.2 | 3.5                   | 2.4                   | 2.6                   | 502.2               | 440.7 | 349.8 | 206.3 | 87.6 | 52.6 | 0.2                 | 0.7   | 2.7    | 14.3   | 1.4                 | 15.7      | 31.0      | 0.0       | 0.0       | 0.0      |
| 08               | 87.5      | 51.1      | 69.3 | 2.7                   | 2.4                   | 2.2                   | 445.3               | 384.9 | 295.8 | 158.6 | 55.6 | 30.4 | 2.1                 | 3.7   | 7.6    | 25.5   | 0.2                 | 13.0      | 31.0      | 0.0       | 0.3       | 0.0      |
| 09               | 79.7      | 41.0      | 60.3 | 3.0                   | 3.2                   | 2.6                   | 200.3               | 156.9 | 101.5 | 37.2  | 8.1  | 3.3  | 40.0                | 56.5  | 91.1   | 176.7  | 0.0                 | 4.2       | 29.6      | 0.0       | 6.7       | 0.0      |
| 10               | 65.0      | 28.5      | 46.8 | 4.7                   | 2.9                   | 3.3                   | 23.5                | 13.5  | 5.2   | 0.5   | 0.0  | 0.0  | 279.3               | 331.2 | 415.9  | 566.2  | 0.0                 | 0.0       | 27.0      | 0.7       | 21.2      | 0.4      |
| 11               | 50.5      | 18.0      | 34.2 | 6.3                   | 2.9                   | 4.2                   | 0.8                 | 0.4   | 0.1   | 0.0   | 0.0  | 0.0  | 623.3               | 682.9 | 772.6  | 922.5  | 0.0                 | 0.0       | 16.2      | 3.2       | 28.8      | 1.9      |
| 12               | 40.4      | 9.9       | 25.2 | 4.4                   | 4.2                   | 4.1                   | 0.0                 | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 925.0               | 987.1 | 1080.1 | 1235.1 | 0.0                 | 0.0       | 7.2       | 8.1       | 30.6      | 6.6      |
| Summary          | 63.4      | 30.3      | 46.9 | 4.4                   | 3.0                   | 3.4                   | 1588                | 1324  | 970   | 492   | 176  | 99   | 4511                | 4976  | 5717   | 7065   | 1.7                 | 38.1      | 261.5     | 28.2      | 202.6     | 20.9     |

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                  | 0.22   | 3.9                 | 0.7     | 0.0     | 0.0     | 0.13                                                                                                                   | 0.19  | 0.29  |  |
| 02                  | 0.35   | 4.4                 | 1.2     | 0.0     | 0.0     | 0.14                                                                                                                   | 0.25  | 0.56  |  |
| 03                  | 0.64   | 5.1                 | 2.3     | 0.3     | 0.0     | 0.22                                                                                                                   | 0.36  | 0.76  |  |
| 04                  | 1.52   | 7.2                 | 3.7     | 0.7     | 0.1     | 0.71                                                                                                                   | 1.64  | 2.15  |  |
| 05                  | 2.89   | 10.8                | 5.8     | 2.0     | 0.8     | 1.51                                                                                                                   | 2.11  | 3.94  |  |
| 06                  | 2.31   | 9.4                 | 5.3     | 1.5     | 0.3     | 1.33                                                                                                                   | 1.63  | 3.26  |  |
| 07                  | 2.21   | 8.0                 | 4.8     | 1.2     | 0.3     | 1.41                                                                                                                   | 2.00  | 2.90  |  |
| 08                  | 1.60   | 7.0                 | 3.9     | 1.0     | 0.2     | 0.86                                                                                                                   | 1.54  | 2.20  |  |
| 09                  | 1.29   | 6.1                 | 2.9     | 0.7     | 0.2     | 0.49                                                                                                                   | 0.83  | 1.75  |  |
| 10                  | 1.12   | 6.1                 | 2.9     | 0.5     | 0.1     | 0.41                                                                                                                   | 0.98  | 1.68  |  |
| 11                  | 0.44   | 3.8                 | 1.5     | 0.2     | 0.0     | 0.19                                                                                                                   | 0.36  | 0.66  |  |
| 12                  | 0.31   | 3.4                 | 1.1     | 0.0     | 0.0     | 0.11                                                                                                                   | 0.24  | 0.47  |  |
| Summary             | 14.90  | 75.2                | 36.1    | 8.1     | 2.0     | 7.51                                                                                                                   | 12.13 | 20.62 |  |

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Generated on 05/29/2024

Current Location: Elev: 4670 ft. Lat: 42.4244° N Lon: 103.7347° W  
Station: **AGATE 3 E, NE US USC00250030**

| 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         | 4.10             | 3.1                    | 1.8  | 0.4 | 0.0  | 0.0   | 10.1                     | 2.8  | 0.9 | 0.0 | 2.50                                                                                              | 3.00 | 5.00 |
| 02         | 5.70             | 3.8                    | 2.5  | 0.6 | 0.2  | 0.0   | 6.8                      | 2.5  | 1.6 | 0.4 | 1.80                                                                                              | 4.50 | 7.60 |
| 03         | 5.60             | 3.2                    | 2.3  | 0.6 | 0.2  | 0.0   | 4.5                      | 2.1  | 1.1 | 0.1 | 2.40                                                                                              | 3.10 | 7.60 |
| 04         | 5.40             | 2.3                    | 1.8  | 0.8 | 0.4  | 0.0   | 2.1                      | 1.3  | 0.8 | 0.1 | 2.10                                                                                              | 4.70 | 7.00 |
| 05         | 1.60             | 0.6                    | 0.6  | 0.2 | 0.0  | 0.0   | 0.2                      | 0.1  | 0.1 | 0.0 | 0.00                                                                                              | 0.00 | 1.80 |
| 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         | 0.30             | 0.1                    | 0.1  | 0.0 | 0.0  | 0.0   | 0.1                      | 0.1  | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 0.00 |
| 10         | 2.40             | 1.1                    | 0.8  | 0.2 | 0.1  | 0.0   | 1.3                      | 0.6  | 0.3 | 0.0 | 0.00                                                                                              | 1.10 | 4.40 |
| 11         | 4.30             | 2.4                    | 1.5  | 0.3 | 0.1  | 0.0   | 4.9                      | 1.4  | 0.2 | 0.0 | 2.50                                                                                              | 4.00 | 4.70 |
| 12         | 4.80             | 3.4                    | 2.3  | 0.6 | 0.0  | 0.0   | 10.0                     | 4.5  | 1.3 | 0.0 | 2.10                                                                                              | 4.20 | 7.00 |
| Summary    | 34.2             | 20.0                   | 13.7 | 3.7 | 1.0  | 0.0   | 40.0                     | 15.4 | 6.3 | 0.6 | 13.4                                                                                              | 24.6 | 45.1 |

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Current Location: Elev: 4670 ft. Lat: 42.4244° N Lon: 103.7347° W

Station: AGATE 3 E, NE US USC00250030

| 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                                      | 5.9  | 12.4 | 88.1  | 206.3 | 457.0 | 740.9 | 966.9 | 908.1 | 611.5 | 254.2 | 53.0 | 7.0  |
| 45                                      | 1.1  | 2.7  | 34.5  | 109.5 | 315.9 | 591.2 | 812.0 | 753.1 | 465.0 | 144.7 | 18.4 | 1.5  |
| 50                                      | 0.2  | 0.2  | 10.1  | 46.4  | 193.9 | 442.8 | 657.0 | 598.4 | 324.9 | 67.4  | 4.5  | 0.2  |
| 55                                      | 0.0  | 0.0  | 2.4   | 13.4  | 99.1  | 301.0 | 502.2 | 445.3 | 200.3 | 23.5  | 0.8  | 0.0  |
| 60                                      | 0.0  | 0.0  | 0.2   | 2.4   | 39.0  | 175.5 | 349.8 | 295.8 | 101.5 | 5.2   | 0.1  | 0.0  |
| Growing Degree Units for Corn (Monthly) |      |      |       |       |       |       |       |       |       |       |      |      |
| 50/86                                   | 17.8 | 30.5 | 117.6 | 191.5 | 319.6 | 477.4 | 604.7 | 579.4 | 437.1 | 248.7 | 89.0 | 20.8 |

| Growing Degree Units (Accumulated Monthly)          |    |    |     |     |     |      |      |      |      |      |      |      |
|-----------------------------------------------------|----|----|-----|-----|-----|------|------|------|------|------|------|------|
| 40                                                  | 6  | 18 | 106 | 313 | 770 | 1511 | 2478 | 3386 | 3997 | 4251 | 4304 | 4311 |
| 45                                                  | 1  | 4  | 38  | 148 | 464 | 1055 | 1867 | 2620 | 3085 | 3230 | 3248 | 3250 |
| 50                                                  | 0  | 0  | 10  | 57  | 251 | 694  | 1351 | 1949 | 2274 | 2341 | 2346 | 2346 |
| 55                                                  | 0  | 0  | 2   | 16  | 115 | 416  | 918  | 1363 | 1564 | 1587 | 1588 | 1588 |
| 60                                                  | 0  | 0  | 0   | 3   | 42  | 217  | 567  | 863  | 964  | 969  | 970  | 970  |
| Growing Degree Units for Corn (Monthly Accumulated) |    |    |     |     |     |      |      |      |      |      |      |      |
| 50/86                                               | 18 | 48 | 166 | 357 | 677 | 1154 | 1759 | 2338 | 2776 | 3024 | 3113 | 3134 |

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

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