

Summary of Monthly Normals  
1991-2020

Generated on 05/20/2024

Current Location: Elev: 2250 ft. Lat: 36.8500° N Lon: 100.0569° W  
Station: **GATE, OK US USC00343489**

| 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               | 47.8      | 21.7      | 34.8 | 4.4                   | 2.8                   | 3.2                   | 1.1                 | 0.5   | 0.1   | 0.0   | 0.0   | 0.0   | 628.8               | 690.1 | 782.7 | 937.7 | 0.0                 | 0.0       | 15.6      | 5.3       | 27.7      | 0.4      |
| 02               | 51.1      | 25.0      | 38.1 | 6.4                   | 4.4                   | 5.0                   | 6.8                 | 4.1   | 1.7   | 0.3   | 0.0   | 0.0   | 481.3               | 534.5 | 616.1 | 754.7 | 0.0                 | 0.1       | 15.9      | 3.8       | 22.3      | 0.6      |
| 03               | 61.2      | 33.9      | 47.6 | 4.8                   | 3.7                   | 3.9                   | 47.7                | 33.7  | 18.7  | 5.1   | 0.6   | 0.3   | 278.7               | 326.7 | 404.7 | 546.1 | 0.0                 | 0.1       | 24.1      | 0.8       | 13.7      | 0.1      |
| 04               | 69.7      | 42.7      | 56.2 | 3.8                   | 2.9                   | 3.2                   | 142.6               | 110.8 | 72.1  | 28.4  | 7.5   | 4.1   | 106.6               | 134.7 | 186.0 | 292.3 | 0.0                 | 1.6       | 27.6      | 0.1       | 3.7       | 0.0      |
| 05               | 79.0      | 53.9      | 66.4 | 4.3                   | 2.6                   | 3.3                   | 369.6               | 315.4 | 240.1 | 135.5 | 62.6  | 42.9  | 14.7                | 22.4  | 40.2  | 90.6  | 0.6                 | 5.7       | 30.7      | 0.0       | 0.1       | 0.0      |
| 06               | 88.4      | 63.9      | 76.2 | 4.3                   | 2.3                   | 3.2                   | 634.6               | 574.8 | 485.7 | 340.9 | 207.2 | 160.2 | 0.2                 | 0.4   | 1.3   | 6.5   | 2.4                 | 15.0      | 30.0      | 0.0       | 0.0       | 0.0      |
| 07               | 93.8      | 68.5      | 81.1 | 3.4                   | 2.2                   | 2.7                   | 810.5               | 748.5 | 655.5 | 501.5 | 349.9 | 291.0 | 0.0                 | 0.0   | 0.1   | 1.0   | 7.8                 | 23.2      | 31.0      | 0.0       | 0.0       | 0.0      |
| 08               | 92.0      | 66.9      | 79.4 | 4.1                   | 2.2                   | 3.0                   | 757.8               | 695.8 | 603.0 | 449.1 | 300.3 | 243.8 | 0.0                 | 0.0   | 0.2   | 1.3   | 6.7                 | 20.2      | 31.0      | 0.0       | 0.0       | 0.0      |
| 09               | 84.3      | 58.1      | 71.2 | 4.0                   | 2.8                   | 3.2                   | 490.8               | 433.4 | 350.2 | 222.9 | 119.4 | 86.7  | 4.8                 | 7.5   | 14.3  | 37.0  | 1.4                 | 10.0      | 30.0      | 0.0       | 0.0       | 0.0      |
| 10               | 72.2      | 45.0      | 58.6 | 4.0                   | 2.8                   | 3.1                   | 187.3               | 149.4 | 100.8 | 43.1  | 12.6  | 6.7   | 75.7                | 99.8  | 144.1 | 241.5 | 0.1                 | 2.6       | 29.5      | 0.2       | 2.5       | 0.0      |
| 11               | 59.3      | 32.8      | 46.0 | 5.2                   | 3.5                   | 4.0                   | 35.3                | 24.4  | 12.5  | 2.9   | 0.3   | 0.1   | 303.8               | 352.8 | 431.0 | 571.4 | 0.0                 | 0.1       | 22.8      | 1.1       | 14.3      | 0.0      |
| 12               | 48.2      | 23.7      | 36.0 | 4.1                   | 3.2                   | 3.2                   | 2.1                 | 1.0   | 0.3   | 0.0   | 0.0   | 0.0   | 592.5               | 653.3 | 745.6 | 900.3 | 0.0                 | 0.0       | 15.0      | 3.9       | 26.0      | 0.3      |
| Summary          | 70.6      | 44.7      | 57.6 | 4.4                   | 3.0                   | 3.4                   | 3486                | 3092  | 2541  | 1730  | 1060  | 836   | 2487                | 2822  | 3366  | 4380  | 19.0                | 78.6      | 303.2     | 15.2      | 110.3     | 1.4      |

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

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Summary of Monthly Normals  
1991-2020  
Generated on 05/20/2024

| 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                  | 0.80   | 3.5                 | 1.7     | 0.5     | 0.1     | 0.17                                                                                                                   | 0.60  | 0.92  |
| 02                  | 0.72   | 3.6                 | 2.0     | 0.5     | 0.1     | 0.24                                                                                                                   | 0.56  | 1.04  |
| 03                  | 1.66   | 5.0                 | 3.1     | 1.4     | 0.3     | 0.55                                                                                                                   | 1.23  | 2.57  |
| 04                  | 2.00   | 5.8                 | 3.6     | 1.5     | 0.5     | 1.09                                                                                                                   | 1.44  | 2.88  |
| 05                  | 2.50   | 7.0                 | 4.8     | 1.6     | 0.6     | 1.22                                                                                                                   | 2.15  | 3.01  |
| 06                  | 3.50   | 7.7                 | 5.4     | 2.4     | 1.2     | 1.44                                                                                                                   | 3.72  | 5.18  |
| 07                  | 2.57   | 6.0                 | 4.4     | 1.7     | 0.9     | 1.12                                                                                                                   | 2.31  | 3.21  |
| 08                  | 3.05   | 7.0                 | 4.6     | 2.2     | 1.0     | 1.84                                                                                                                   | 2.79  | 3.88  |
| 09                  | 1.49   | 4.7                 | 3.2     | 1.0     | 0.3     | 0.83                                                                                                                   | 1.23  | 2.00  |
| 10                  | 2.15   | 5.2                 | 3.2     | 1.3     | 0.6     | 0.51                                                                                                                   | 1.56  | 3.06  |
| 11                  | 0.94   | 3.1                 | 2.0     | 0.6     | 0.1     | 0.17                                                                                                                   | 0.41  | 1.65  |
| 12                  | 1.25   | 3.8                 | 2.1     | 0.8     | 0.3     | 0.32                                                                                                                   | 1.09  | 1.80  |
| Summary             | 22.63  | 62.4                | 40.1    | 15.5    | 6.0     | 9.50                                                                                                                   | 19.09 | 31.20 |

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Station: **GATE, OK US USC00343489**

Summary of Monthly Normals  
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         | 3.00             | 2.3                    | 1.8 | 0.3 | 0.3  | 0.0   | 4.5                      | 2.0 | 1.1 | 0.0 | 1.20                                                                                              | 2.00 | 3.50 |
| 02         | 3.20             | 1.6                    | 1.3 | 0.3 | 0.1  | 0.0   | 3.2                      | 1.4 | 0.5 | 0.0 | 0.00                                                                                              | 1.00 | 4.40 |
| 03         | 4.30             | 1.4                    | 1.4 | 0.6 | 0.3  | 0.1   | 2.0                      | 1.0 | 0.6 | 0.2 | 0.00                                                                                              | 3.00 | 5.90 |
| 04         | 0.70             | 0.4                    | 0.3 | 0.0 | 0.0  | 0.0   | 0.3                      | 0.0 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 1.40 |
| 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         | 0.50             | 0.3                    | 0.2 | 0.0 | 0.0  | 0.0   | 0.2                      | 0.0 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 0.00 |
| 11         | 1.30             | 0.6                    | 0.5 | 0.2 | 0.0  | 0.0   | 0.8                      | 0.3 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 1.50 |
| 12         | 4.60             | 1.8                    | 1.6 | 0.6 | 0.3  | 0.1   | 5.4                      | 3.1 | 2.0 | 0.7 | 0.60                                                                                              | 2.00 | 6.10 |
| Summary    | 17.6             | 8.4                    | 7.1 | 2.0 | 1.0  | 0.2   | 16.4                     | 7.8 | 4.2 | 0.9 | 1.8                                                                                               | 8.0  | 22.8 |

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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                                      | 61.8 | 104.7 | 291.7 | 495.9 | 820.1 | 1084.3 | 1275.4 | 1222.7 | 935.8 | 583.9 | 240.7 | 71.0 |
| 45                                      | 23.7 | 52.1  | 185.4 | 360.6 | 665.9 | 934.4  | 1120.5 | 1067.8 | 786.0 | 437.5 | 146.0 | 27.2 |
| 50                                      | 6.8  | 21.0  | 103.0 | 240.6 | 514.1 | 784.5  | 965.5  | 912.8  | 637.1 | 301.7 | 78.1  | 8.2  |
| 55                                      | 1.1  | 6.8   | 47.7  | 142.6 | 369.6 | 634.6  | 810.5  | 757.8  | 490.8 | 187.3 | 35.3  | 2.1  |
| 60                                      | 0.1  | 1.7   | 18.7  | 72.1  | 240.1 | 485.7  | 655.5  | 603.0  | 350.2 | 100.8 | 12.5  | 0.3  |
| Growing Degree Units for Corn (Monthly) |      |       |       |       |       |        |        |        |       |       |       |      |
| 50/86                                   | 72.2 | 95.8  | 207.9 | 311.3 | 510.3 | 712.7  | 832.8  | 799.4  | 599.2 | 365.4 | 173.8 | 70.6 |

| Growing Degree Units (Accumulated Monthly)          |    |     |     |     |      |      |      |      |      |      |      |      |
|-----------------------------------------------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| 40                                                  | 62 | 166 | 458 | 954 | 1774 | 2858 | 4134 | 5357 | 6292 | 6876 | 7117 | 7188 |
| 45                                                  | 24 | 76  | 261 | 622 | 1288 | 2222 | 3343 | 4410 | 5196 | 5634 | 5780 | 5807 |
| 50                                                  | 7  | 28  | 131 | 371 | 886  | 1670 | 2636 | 3548 | 4185 | 4487 | 4565 | 4573 |
| 55                                                  | 1  | 8   | 56  | 198 | 568  | 1202 | 2013 | 2771 | 3262 | 3449 | 3484 | 3486 |
| 60                                                  | 0  | 2   | 20  | 93  | 333  | 818  | 1474 | 2077 | 2427 | 2528 | 2540 | 2541 |
| Growing Degree Units for Corn (Monthly Accumulated) |    |     |     |     |      |      |      |      |      |      |      |      |
| 50/86                                               | 72 | 168 | 376 | 687 | 1198 | 1910 | 2743 | 3542 | 4142 | 4507 | 4681 | 4751 |

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.