

Summary of Monthly Normals  
1991-2020

Generated on 05/23/2024

Current Location: Elev: 440 ft. Lat: 35.3319° N Lon: 79.4067° W  
Station: **CARTHAGE WTP, NC US USC00311515**

| 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               | 52.6      | 30.6      | 41.6 |                       |                       |                       | 8.5                 | 4.5   | 1.1   | 0.1   | 0.0   | 0.0   | 423.8               | 481.8 | 571.4 | 725.4 | 0.0                 | 0.0       | 19.8      | 1.5       | 18.2      | 0.0      |
| 02               | 55.7      | 32.3      | 44.0 |                       |                       |                       | 16.8                | 10.3  | 3.5   | 0.1   | 0.0   | 0.0   | 324.5               | 374.1 | 451.2 | 587.8 | 0.0                 | 0.0       | 19.6      | 0.7       | 13.4      | 0.0      |
| 03               | 65.2      | 40.0      | 52.6 |                       |                       |                       | 85.2                | 62.0  | 34.3  | 9.0   | 1.2   | 0.6   | 159.8               | 198.5 | 263.9 | 393.6 | 0.0                 | 0.0       | 28.4      | 0.0       | 7.0       | 0.0      |
| 04               | 73.2      | 46.8      | 60.0 |                       |                       |                       | 185.2               | 142.6 | 89.5  | 31.5  | 6.2   | 2.3   | 35.2                | 52.6  | 89.4  | 181.5 | 0.0                 | 0.1       | 29.9      | 0.0       | 0.8       | 0.0      |
| 05               | 80.4      | 56.5      | 68.5 |                       |                       |                       | 419.8               | 360.7 | 275.4 | 151.5 | 59.2  | 33.9  | 2.9                 | 5.9   | 13.6  | 44.6  | 0.0                 | 3.2       | 31.0      | 0.0       | 0.0       | 0.0      |
| 06               | 86.7      | 65.3      | 76.0 |                       |                       |                       | 630.0               | 570.0 | 480.1 | 331.8 | 190.7 | 140.2 | 0.0                 | 0.0   | 0.2   | 1.8   | 0.1                 | 11.4      | 30.0      | 0.0       | 0.0       | 0.0      |
| 07               | 90.3      | 69.1      | 79.7 |                       |                       |                       | 765.4               | 703.4 | 610.4 | 455.4 | 301.2 | 240.1 | 0.0                 | 0.0   | 0.0   | 0.0   | 0.2                 | 20.5      | 31.0      | 0.0       | 0.0       | 0.0      |
| 08               | 87.8      | 67.3      | 77.6 |                       |                       |                       | 699.0               | 637.0 | 544.0 | 389.4 | 237.6 | 179.7 | 0.0                 | 0.0   | 0.0   | 0.3   | 0.0                 | 12.6      | 31.0      | 0.0       | 0.0       | 0.0      |
| 09               | 83.3      | 60.9      | 72.1 |                       |                       |                       | 513.2               | 453.7 | 365.6 | 227.9 | 112.9 | 75.8  | 0.4                 | 0.9   | 2.9   | 15.1  | 0.0                 | 7.3       | 30.0      | 0.0       | 0.0       | 0.0      |
| 10               | 73.0      | 49.1      | 61.1 |                       |                       |                       | 212.2               | 165.3 | 106.1 | 40.1  | 11.5  | 6.7   | 24.6                | 39.7  | 73.4  | 162.5 | 0.0                 | 0.3       | 31.0      | 0.0       | 0.2       | 0.0      |
| 11               | 64.0      | 38.7      | 51.4 |                       |                       |                       | 46.1                | 30.4  | 14.3  | 2.7   | 0.1   | 0.0   | 155.6               | 199.9 | 273.7 | 412.1 | 0.0                 | 0.0       | 28.2      | 0.0       | 7.3       | 0.0      |
| 12               | 55.2      | 33.1      | 44.2 |                       |                       |                       | 20.3                | 14.1  | 7.0   | 1.1   | 0.0   | 0.0   | 356.5               | 412.2 | 498.1 | 647.3 | 0.0                 | 0.0       | 22.8      | 0.3       | 15.0      | 0.0      |
| Summary          | 72.3      | 49.1      | 60.7 | 0.0                   | 0.0                   | 0.0                   | 3602                | 3154  | 2531  | 1641  | 921   | 679   | 1483                | 1766  | 2238  | 3172  | 0.3                 | 55.4      | 332.7     | 2.5       | 61.9      | 0.0      |

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                  | 3.93   | 8.3                 | 6.2     | 3.0     | 0.9     | 2.56                                                                                                                   | 3.79  | 5.07  |
| 02                  | 3.09   | 7.2                 | 5.4     | 2.1     | 0.9     | 1.80                                                                                                                   | 3.02  | 3.91  |
| 03                  | 4.12   | 7.8                 | 5.5     | 2.6     | 1.1     | 2.97                                                                                                                   | 3.86  | 5.23  |
| 04                  | 3.32   | 6.8                 | 5.0     | 2.3     | 1.2     | 2.04                                                                                                                   | 3.65  | 4.37  |
| 05                  | 2.95   | 6.7                 | 5.0     | 2.2     | 0.8     | 2.03                                                                                                                   | 2.80  | 3.79  |
| 06                  | 4.50   | 8.2                 | 6.0     | 2.7     | 1.5     | 1.99                                                                                                                   | 4.18  | 5.37  |
| 07                  | 4.72   | 8.7                 | 6.9     | 3.3     | 1.7     | 2.93                                                                                                                   | 4.46  | 5.81  |
| 08                  | 4.86   | 8.4                 | 6.6     | 3.2     | 1.3     | 3.27                                                                                                                   | 4.47  | 6.32  |
| 09                  | 5.67   | 6.7                 | 4.9     | 2.8     | 1.6     | 3.15                                                                                                                   | 4.85  | 7.76  |
| 10                  | 3.38   | 6.4                 | 4.4     | 2.0     | 1.1     | 2.09                                                                                                                   | 3.07  | 4.51  |
| 11                  | 3.61   | 6.6                 | 4.9     | 2.4     | 1.4     | 1.80                                                                                                                   | 3.27  | 4.61  |
| 12                  | 3.66   | 7.5                 | 5.5     | 2.5     | 1.3     | 2.57                                                                                                                   | 3.22  | 4.44  |
| Summary             | 47.81  | 89.3                | 66.3    | 31.1    | 14.8    | 29.20                                                                                                                  | 44.64 | 61.19 |

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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         | 0.70             | 0.4                    | 0.3 | 0.1 | 0.0  | 0.0   | 0.3                      | 0.0 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 0.00 |
| 02         | 0.30             | 0.2                    | 0.1 | 0.1 | 0.0  | 0.0   | 0.0                      | 0.0 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 0.00 |
| 03         | 0.20             | 0.1                    | 0.1 | 0.0 | 0.0  | 0.0   | 0.1                      | 0.0 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 0.00 |
| 04         | 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 |
| 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         | 0.00             | 0.0                    | 0.0 | 0.0 | 0.0  | 0.0   | 0.0                      | 0.0 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 0.00 |
| 11         | 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 |
| 12         | 0.10             | 0.1                    | 0.1 | 0.1 | 0.1  | 0.0   | 0.1                      | 0.0 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 0.00 |
| Summary    | 1.3              | 0.8                    | 0.6 | 0.3 | 0.1  | 0.0   | 0.5                      | 0.0 | 0.0 | 0.0 | 0.0                                                                                               | 0.0  | 0.0  |

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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                                                  | 144.4 | 170.2 | 400.0 | 600.6 | 881.8 | 1079.9 | 1230.3 | 1164.0 | 962.6 | 652.8 | 345.7 | 180.7 |
| 45                                                  | 73.2  | 97.6  | 267.3 | 452.3 | 726.8 | 929.8  | 1075.1 | 1008.9 | 812.4 | 498.3 | 212.7 | 95.2  |
| 50                                                  | 29.4  | 45.2  | 162.3 | 311.1 | 572.0 | 779.9  | 920.2  | 854.0  | 662.5 | 347.9 | 110.5 | 47.2  |
| 55                                                  | 8.5   | 16.8  | 85.2  | 185.2 | 419.8 | 630.0  | 765.4  | 699.0  | 513.2 | 212.2 | 46.1  | 20.3  |
| 60                                                  | 1.1   | 3.5   | 34.3  | 89.5  | 275.4 | 480.1  | 610.4  | 544.0  | 365.6 | 106.1 | 14.3  | 7.0   |
| Growing Degree Units for Corn (Monthly)             |       |       |       |       |       |        |        |        |       |       |       |       |
| 50/86                                               | 89.3  | 113.4 | 251.9 | 377.3 | 577.5 | 741.1  | 845.5  | 807.6  | 641.9 | 395.6 | 218.9 | 114.1 |
| Growing Degree Units (Accumulated Monthly)          |       |       |       |       |       |        |        |        |       |       |       |       |
| 40                                                  | 144   | 315   | 715   | 1315  | 2197  | 3277   | 4507   | 5671   | 6634  | 7287  | 7632  | 7813  |
| 45                                                  | 73    | 171   | 438   | 890   | 1617  | 2547   | 3622   | 4631   | 5443  | 5942  | 6154  | 6250  |
| 50                                                  | 29    | 75    | 237   | 548   | 1120  | 1900   | 2820   | 3674   | 4337  | 4684  | 4795  | 4842  |
| 55                                                  | 8     | 25    | 110   | 296   | 716   | 1346   | 2111   | 2810   | 3323  | 3535  | 3581  | 3602  |
| 60                                                  | 1     | 5     | 39    | 128   | 404   | 884    | 1494   | 2038   | 2404  | 2510  | 2524  | 2531  |
| Growing Degree Units for Corn (Monthly Accumulated) |       |       |       |       |       |        |        |        |       |       |       |       |
| 50/86                                               | 89    | 203   | 455   | 832   | 1409  | 2150   | 2996   | 3804   | 4446  | 4841  | 5060  | 5174  |

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.