

Summary of Monthly Normals  
1991-2020

Generated on 04/28/2024

Current Location: Elev: 767 ft. Lat: 35.8361° N Lon: 84.6919° W

Station: ROCKWOOD 2, TN US USC00407834

| 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               | 46.7      | 27.7      | 37.2 | 3.6                   | 4.0                   | 3.7                   | 2.5                 | 1.1   | 0.3   | 0.0   | 0.0   | 0.0   | 554.1               | 614.7 | 706.9 | 861.8 | 0.0                 | 0.0       | 12.3      | 2.3       | 22.3      | 0.1      |
| 02               | 51.2      | 29.6      | 40.4 | 4.1                   | 3.9                   | 3.8                   | 3.0                 | 1.5   | 0.4   | 0.1   | 0.0   | 0.0   | 411.6               | 466.1 | 549.0 | 688.8 | 0.0                 | 0.0       | 16.2      | 1.1       | 19.1      | 0.1      |
| 03               | 60.6      | 36.3      | 48.5 | 4.6                   | 4.2                   | 4.2                   | 33.9                | 20.7  | 8.9   | 1.4   | 0.0   | 0.0   | 237.0               | 285.8 | 367.0 | 514.5 | 0.0                 | 0.0       | 25.7      | 0.1       | 11.8      | 0.0      |
| 04               | 70.3      | 43.5      | 56.9 | 3.0                   | 2.8                   | 2.7                   | 129.1               | 95.4  | 55.4  | 14.6  | 1.4   | 0.5   | 72.1                | 98.4  | 148.4 | 257.6 | 0.0                 | 0.0       | 29.0      | 0.0       | 2.8       | 0.0      |
| 05               | 77.7      | 53.1      | 65.4 | 2.8                   | 3.2                   | 2.9                   | 330.7               | 275.4 | 198.2 | 93.8  | 26.8  | 12.6  | 8.3                 | 15.0  | 30.8  | 81.4  | 0.0                 | 0.6       | 31.0      | 0.0       | 0.0       | 0.0      |
| 06               | 84.5      | 62.1      | 73.3 | 2.6                   | 2.2                   | 2.1                   | 548.9               | 489.0 | 400.0 | 256.4 | 126.1 | 82.3  | 0.0                 | 0.2   | 1.1   | 7.5   | 0.0                 | 5.4       | 30.0      | 0.0       | 0.0       | 0.0      |
| 07               | 87.5      | 66.2      | 76.8 | 2.0                   | 2.1                   | 1.8                   | 677.2               | 615.2 | 522.2 | 367.4 | 214.0 | 155.4 | 0.0                 | 0.0   | 0.0   | 0.1   | 0.0                 | 11.1      | 31.0      | 0.0       | 0.0       | 0.0      |
| 08               | 86.5      | 64.9      | 75.7 | 3.1                   | 2.2                   | 2.4                   | 641.6               | 579.6 | 486.6 | 331.9 | 181.6 | 128.1 | 0.0                 | 0.0   | 0.0   | 0.2   | 0.3                 | 11.9      | 31.0      | 0.0       | 0.0       | 0.0      |
| 09               | 81.8      | 58.4      | 70.1 | 3.3                   | 2.5                   | 2.5                   | 453.5               | 394.6 | 308.1 | 174.9 | 70.7  | 42.4  | 0.7                 | 1.9   | 5.3   | 21.9  | 0.0                 | 3.5       | 30.0      | 0.0       | 0.0       | 0.0      |
| 10               | 70.7      | 46.1      | 58.4 | 2.8                   | 3.0                   | 2.3                   | 163.6               | 124.4 | 75.5  | 24.1  | 4.3   | 2.1   | 58.1                | 81.0  | 125.1 | 228.6 | 0.0                 | 0.0       | 30.6      | 0.0       | 2.7       | 0.0      |
| 11               | 58.9      | 35.3      | 47.1 | 4.5                   | 2.8                   | 3.4                   | 21.4                | 12.8  | 5.3   | 0.8   | 0.0   | 0.0   | 258.2               | 309.6 | 392.2 | 537.7 | 0.0                 | 0.0       | 25.0      | 0.0       | 12.8      | 0.0      |
| 12               | 49.8      | 30.4      | 40.1 | 4.2                   | 3.5                   | 3.7                   | 3.6                 | 1.9   | 0.9   | 0.2   | 0.0   | 0.0   | 465.3               | 525.7 | 617.6 | 772.1 | 0.0                 | 0.0       | 15.5      | 1.0       | 20.9      | 0.0      |
| Summary          | 68.8      | 46.1      | 57.5 | 3.4                   | 3.0                   | 3.0                   | 3009                | 2612  | 2062  | 1266  | 625   | 423   | 2065                | 2398  | 2943  | 3972  | 0.3                 | 32.5      | 307.3     | 4.5       | 92.4      | 0.2      |

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

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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                  | 5.41   | 9.9                 | 7.8     | 4.1     | 1.6     | 3.72                                                                                                                   | 4.29  | 7.36  |
| 02                  | 5.43   | 9.4                 | 7.7     | 3.8     | 1.4     | 3.21                                                                                                                   | 4.42  | 7.04  |
| 03                  | 5.46   | 10.5                | 8.4     | 3.9     | 1.7     | 3.98                                                                                                                   | 5.06  | 6.49  |
| 04                  | 5.63   | 9.6                 | 7.7     | 4.1     | 1.9     | 3.94                                                                                                                   | 4.95  | 7.02  |
| 05                  | 4.73   | 10.3                | 7.3     | 3.4     | 1.5     | 2.79                                                                                                                   | 4.32  | 6.44  |
| 06                  | 5.46   | 11.3                | 9.0     | 4.2     | 1.6     | 3.98                                                                                                                   | 4.98  | 7.53  |
| 07                  | 5.96   | 11.3                | 9.2     | 4.3     | 1.8     | 4.79                                                                                                                   | 5.88  | 7.17  |
| 08                  | 3.82   | 8.9                 | 7.0     | 3.0     | 1.1     | 2.61                                                                                                                   | 3.48  | 5.03  |
| 09                  | 4.45   | 7.5                 | 5.7     | 2.9     | 1.4     | 2.71                                                                                                                   | 3.83  | 5.52  |
| 10                  | 3.48   | 6.5                 | 4.9     | 2.4     | 1.0     | 1.66                                                                                                                   | 3.48  | 4.24  |
| 11                  | 4.62   | 7.7                 | 6.0     | 3.1     | 1.6     | 3.02                                                                                                                   | 4.47  | 5.99  |
| 12                  | 6.01   | 10.1                | 8.2     | 4.5     | 1.9     | 3.76                                                                                                                   | 5.85  | 8.13  |
| Summary             | 60.46  | 113.0               | 88.9    | 43.7    | 18.5    | 40.17                                                                                                                  | 55.01 | 77.96 |

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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         | 0.70             | 0.4                    | 0.2 | 0.1 | 0.0  | 0.0   | 0.2                      | 0.0 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 0.20 |
| 02         | 1.20             | 0.5                    | 0.4 | 0.2 | 0.1  | 0.0   | 0.4                      | 0.1 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 1.00 |
| 03         | 0.00             | 0.1                    | 0.1 | 0.0 | 0.0  | 0.0   | 0.0                      | 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   | 0.1                      | 0.0 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 0.00 |
| 12         | 0.10             | 0.2                    | 0.1 | 0.0 | 0.0  | 0.0   | 0.1                      | 0.0 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 0.00 |
| Summary    | 2.0              | 1.2                    | 0.8 | 0.3 | 0.1  | 0.0   | 0.8                      | 0.1 | 0.0 | 0.0 | 0.0                                                                                               | 0.0  | 1.2  |

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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                                      | 73.3 | 103.6 | 289.8 | 509.1 | 787.4 | 998.8 | 1142.2 | 1106.6 | 902.8 | 571.4 | 239.4 | 102.2 |
| 45                                      | 27.6 | 43.6  | 174.4 | 366.0 | 632.5 | 848.8 | 987.2  | 951.5  | 752.7 | 420.7 | 136.0 | 43.9  |
| 50                                      | 8.7  | 14.4  | 87.4  | 235.6 | 478.7 | 698.8 | 832.2  | 796.6  | 602.8 | 281.9 | 63.6  | 14.9  |
| 55                                      | 2.5  | 3.0   | 33.9  | 129.1 | 330.7 | 548.9 | 677.2  | 641.6  | 453.5 | 163.6 | 21.4  | 3.6   |
| 60                                      | 0.3  | 0.4   | 8.9   | 55.4  | 198.2 | 400.0 | 522.2  | 486.6  | 308.1 | 75.5  | 5.3   | 0.9   |
| Growing Degree Units for Corn (Monthly) |      |       |       |       |       |       |        |        |       |       |       |       |
| 50/86                                   | 38.9 | 71.6  | 184.3 | 319.2 | 505.7 | 677.7 | 791.1  | 759.7  | 595.1 | 353.0 | 151.6 | 58.1  |

| Growing Degree Units (Accumulated Monthly)          |    |     |     |     |      |      |      |      |      |      |      |      |
|-----------------------------------------------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| 40                                                  | 73 | 177 | 467 | 976 | 1763 | 2762 | 3904 | 5011 | 5914 | 6485 | 6724 | 6827 |
| 45                                                  | 28 | 71  | 246 | 612 | 1244 | 2093 | 3080 | 4032 | 4784 | 5205 | 5341 | 5385 |
| 50                                                  | 9  | 23  | 110 | 346 | 825  | 1524 | 2356 | 3152 | 3755 | 4037 | 4101 | 4116 |
| 55                                                  | 2  | 6   | 39  | 168 | 499  | 1048 | 1725 | 2367 | 2820 | 2984 | 3005 | 3009 |
| 60                                                  | 0  | 1   | 10  | 65  | 263  | 663  | 1185 | 1672 | 1980 | 2056 | 2061 | 2062 |
| Growing Degree Units for Corn (Monthly Accumulated) |    |     |     |     |      |      |      |      |      |      |      |      |
| 50/86                                               | 39 | 110 | 295 | 614 | 1120 | 1797 | 2588 | 3348 | 3943 | 4296 | 4448 | 4506 |

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.