

Summary of Monthly Normals  
1991-2020

Generated on 06/04/2024

Current Location: Elev: 900 ft. Lat: 41.2019° N Lon: 80.8106° W

Station: WARREN 3 S, OH US USC00338769

| 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               | 34.7      | 16.8      | 25.8 | 4.6                   | 5.5                   | 4.9                   | 0.3                 | 0.1   | 0.0   | 0.0   | 0.0  | 0.0  | 906.8               | 968.7 | 1061.6 | 1216.5 | 0.0                 | 0.0       | 3.8       | 13.5      | 27.5      | 3.5      |
| 02               | 37.6      | 17.2      | 27.4 | 5.1                   | 6.2                   | 5.6                   | 0.6                 | 0.4   | 0.0   | 0.0   | 0.0  | 0.0  | 773.3               | 829.0 | 912.7  | 1052.7 | 0.0                 | 0.0       | 4.5       | 9.5       | 25.3      | 3.1      |
| 03               | 46.7      | 24.8      | 35.8 | 4.8                   | 3.7                   | 3.9                   | 5.7                 | 3.0   | 0.9   | 0.1   | 0.0  | 0.0  | 602.4               | 661.7 | 752.6  | 906.7  | 0.0                 | 0.0       | 11.9      | 3.8       | 25.0      | 0.3      |
| 04               | 60.3      | 35.0      | 47.6 | 3.2                   | 2.6                   | 2.6                   | 40.2                | 27.5  | 14.3  | 3.2   | 0.4  | 0.1  | 260.7               | 308.0 | 384.8  | 523.8  | 0.0                 | 0.0       | 24.3      | 0.2       | 13.7      | 0.0      |
| 05               | 71.3      | 45.3      | 58.3 | 4.2                   | 3.9                   | 3.9                   | 170.1               | 133.6 | 88.0  | 36.1  | 10.6 | 5.2  | 67.8                | 93.3  | 140.7  | 243.8  | 0.0                 | 0.2       | 30.5      | 0.0       | 3.2       | 0.0      |
| 06               | 79.1      | 54.3      | 66.7 | 2.0                   | 1.9                   | 1.7                   | 355.3               | 299.4 | 220.2 | 110.7 | 39.5 | 22.4 | 4.4                 | 8.5   | 19.3   | 59.8   | 0.0                 | 2.1       | 30.0      | 0.0       | 0.0       | 0.0      |
| 07               | 82.9      | 58.5      | 70.7 | 2.7                   | 2.4                   | 2.2                   | 486.6               | 424.6 | 332.5 | 189.0 | 78.2 | 47.9 | 0.0                 | 0.0   | 0.9    | 12.4   | 0.0                 | 4.1       | 31.0      | 0.0       | 0.0       | 0.0      |
| 08               | 81.6      | 56.7      | 69.1 | 2.7                   | 2.3                   | 2.4                   | 438.6               | 377.0 | 286.1 | 150.5 | 57.0 | 32.9 | 0.1                 | 0.5   | 2.5    | 21.9   | 0.0                 | 3.2       | 31.0      | 0.0       | 0.0       | 0.0      |
| 09               | 75.1      | 50.0      | 62.5 | 2.9                   | 2.9                   | 2.5                   | 243.9               | 195.1 | 131.7 | 56.5  | 17.4 | 9.0  | 17.5                | 28.7  | 55.3   | 130.2  | 0.0                 | 0.9       | 30.0      | 0.0       | 0.4       | 0.0      |
| 10               | 63.0      | 39.5      | 51.3 | 3.0                   | 2.6                   | 2.5                   | 59.7                | 41.9  | 22.3  | 6.3   | 1.1  | 0.2  | 175.9               | 220.1 | 293.5  | 432.6  | 0.0                 | 0.0       | 27.9      | 0.0       | 7.6       | 0.0      |
| 11               | 50.4      | 30.6      | 40.5 | 5.1                   | 2.6                   | 3.6                   | 6.4                 | 3.3   | 1.1   | 0.1   | 0.0  | 0.0  | 441.4               | 498.3 | 586.1  | 735.0  | 0.0                 | 0.0       | 15.8      | 1.0       | 18.2      | 0.0      |
| 12               | 39.4      | 23.2      | 31.3 | 4.9                   | 4.5                   | 4.6                   | 0.8                 | 0.3   | 0.0   | 0.0   | 0.0  | 0.0  | 735.4               | 796.9 | 889.6  | 1044.6 | 0.0                 | 0.0       | 6.2       | 8.3       | 26.2      | 0.5      |
| Summary          | 60.2      | 37.7      | 48.9 | 3.8                   | 3.4                   | 3.4                   | 1808                | 1506  | 1097  | 552   | 204  | 118  | 3986                | 4414  | 5100   | 6380   | 0.0                 | 10.5      | 246.9     | 36.3      | 147.1     | 7.4      |

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

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Station: **WARREN 3 S, OH US USC00338769**

Summary of Monthly Normals  
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                  | 3.11   | 15.9                | 8.1     | 1.7     | 0.4     | 2.23                                                                                                                   | 2.84  | 3.65  |
| 02                  | 2.31   | 11.3                | 6.5     | 1.2     | 0.1     | 1.56                                                                                                                   | 1.97  | 2.57  |
| 03                  | 3.13   | 12.2                | 7.7     | 2.1     | 0.4     | 2.10                                                                                                                   | 3.08  | 3.61  |
| 04                  | 3.76   | 13.5                | 8.8     | 2.2     | 0.7     | 2.99                                                                                                                   | 3.80  | 4.39  |
| 05                  | 3.76   | 14.2                | 8.9     | 2.4     | 0.5     | 2.26                                                                                                                   | 3.88  | 4.54  |
| 06                  | 4.10   | 12.3                | 8.3     | 2.7     | 0.8     | 2.36                                                                                                                   | 4.05  | 5.11  |
| 07                  | 4.64   | 11.4                | 7.7     | 3.0     | 1.4     | 3.21                                                                                                                   | 3.81  | 5.30  |
| 08                  | 3.49   | 10.2                | 6.9     | 2.4     | 0.9     | 2.66                                                                                                                   | 3.33  | 4.60  |
| 09                  | 3.67   | 10.8                | 6.8     | 2.2     | 1.0     | 2.95                                                                                                                   | 3.56  | 4.69  |
| 10                  | 3.30   | 12.7                | 7.9     | 2.3     | 0.5     | 2.49                                                                                                                   | 3.05  | 3.97  |
| 11                  | 2.61   | 11.9                | 6.6     | 1.4     | 0.4     | 1.89                                                                                                                   | 2.58  | 3.42  |
| 12                  | 2.93   | 13.1                | 7.2     | 1.8     | 0.5     | 2.15                                                                                                                   | 2.78  | 3.55  |
| Summary             | 40.81  | 149.5               | 91.4    | 25.4    | 7.6     | 28.85                                                                                                                  | 38.73 | 49.40 |

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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         | 9.60             | 7.3                    | 4.0  | 1.1 | 0.4  | 0.1   | 10.8                     | 5.5  | 3.2 | 0.8 | 3.10                                                                                              | 5.50 | 12.40 |
| 02         | 6.40             | 4.9                    | 2.6  | 0.9 | 0.3  | 0.0   | 9.0                      | 4.1  | 2.3 | 0.4 | 2.00                                                                                              | 4.60 | 10.00 |
| 03         | 4.40             | 2.6                    | 1.5  | 0.4 | 0.2  | 0.0   | 3.3                      | 1.3  | 0.6 | 0.1 | 0.50                                                                                              | 3.30 | 6.00  |
| 04         | 0.20             | 0.2                    | 0.1  | 0.0 | 0.0  | 0.0   | 0.2                      | 0.0  | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 0.10  |
| 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         | 0.80             | 0.9                    | 0.4  | 0.0 | 0.0  | 0.0   | 0.7                      | 0.1  | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 1.30  |
| 12         | 6.50             | 5.1                    | 2.9  | 0.6 | 0.1  | 0.0   | 6.7                      | 2.5  | 0.7 | 0.1 | 1.20                                                                                              | 6.30 | 10.50 |
| Summary    | 27.9             | 21.0                   | 11.5 | 3.0 | 1.0  | 0.1   | 30.7                     | 13.5 | 6.8 | 1.4 | 6.8                                                                                               | 19.7 | 40.3  |

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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                                      | 18.5 | 19.4 | 77.4 | 264.6 | 568.3 | 800.9 | 951.6 | 903.5 | 676.4 | 356.7 | 116.5 | 33.5 |
| 45                                      | 6.9  | 6.7  | 38.7 | 161.8 | 419.0 | 650.9 | 796.6 | 748.5 | 526.7 | 224.4 | 56.2  | 12.9 |
| 50                                      | 1.7  | 2.2  | 16.6 | 87.2  | 282.1 | 501.4 | 641.6 | 593.6 | 380.2 | 125.2 | 22.2  | 4.2  |
| 55                                      | 0.3  | 0.6  | 5.7  | 40.2  | 170.1 | 355.3 | 486.6 | 438.6 | 243.9 | 59.7  | 6.4   | 0.8  |
| 60                                      | 0.0  | 0.0  | 0.9  | 14.3  | 88.0  | 220.2 | 332.5 | 286.1 | 131.7 | 22.3  | 1.1   | 0.0  |
| Growing Degree Units for Corn (Monthly) |      |      |      |       |       |       |       |       |       |       |       |      |
| 50/86                                   | 10.8 | 15.2 | 59.9 | 179.0 | 359.3 | 513.7 | 630.3 | 590.0 | 423.1 | 218.5 | 73.8  | 17.5 |

| Growing Degree Units (Accumulated Monthly)          |    |    |     |     |     |      |      |      |      |      |      |      |
|-----------------------------------------------------|----|----|-----|-----|-----|------|------|------|------|------|------|------|
| 40                                                  | 18 | 38 | 115 | 380 | 948 | 1749 | 2701 | 3604 | 4281 | 4637 | 4754 | 4787 |
| 45                                                  | 7  | 14 | 52  | 214 | 633 | 1284 | 2081 | 2829 | 3356 | 3580 | 3636 | 3649 |
| 50                                                  | 2  | 4  | 20  | 108 | 390 | 891  | 1533 | 2126 | 2507 | 2632 | 2654 | 2658 |
| 55                                                  | 0  | 1  | 7   | 47  | 217 | 572  | 1059 | 1497 | 1741 | 1801 | 1807 | 1808 |
| 60                                                  | 0  | 0  | 1   | 15  | 103 | 323  | 656  | 942  | 1074 | 1096 | 1097 | 1097 |
| Growing Degree Units for Corn (Monthly Accumulated) |    |    |     |     |     |      |      |      |      |      |      |      |
| 50/86                                               | 11 | 26 | 86  | 265 | 624 | 1138 | 1768 | 2358 | 2781 | 3000 | 3074 | 3091 |

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.