

Summary of Monthly Normals  
1991-2020

Generated on 06/03/2024

Current Location: Elev: 4222 ft. Lat: 46.4356° N Lon: 109.8428° W  
Station: HARLOWTON, MT US USC00243939

| 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               | 35.7      | 13.3      | 24.5 | 4.0                   | 4.8                   | 4.2                   | 0.0                 | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 945.5               | 1007.5 | 1100.5 | 1255.5 | 0.0                 | 0.0       | 4.3       | 8.4       | 28.6      | 6.1      |
| 02               | 38.2      | 14.1      | 26.2 | 6.9                   | 7.0                   | 6.8                   | 0.1                 | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 807.8               | 863.8  | 947.8  | 1087.8 | 0.0                 | 0.0       | 7.1       | 6.8       | 26.2      | 4.6      |
| 03               | 47.5      | 19.8      | 33.7 | 5.3                   | 4.1                   | 4.5                   | 0.0                 | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 662.0               | 723.9  | 816.9  | 971.9  | 0.0                 | 0.0       | 16.3      | 2.8       | 27.6      | 1.8      |
| 04               | 54.3      | 27.8      | 41.0 | 3.4                   | 2.7                   | 2.9                   | 4.3                 | 2.3   | 0.7   | 0.0   | 0.0  | 0.0  | 422.7               | 480.8  | 569.1  | 718.4  | 0.0                 | 0.0       | 21.6      | 0.7       | 20.9      | 0.1      |
| 05               | 64.3      | 37.1      | 50.7 | 4.3                   | 2.0                   | 2.8                   | 45.8                | 28.7  | 11.5  | 1.5   | 0.1  | 0.0  | 179.2               | 224.1  | 299.8  | 444.8  | 0.0                 | 0.1       | 28.5      | 0.0       | 8.7       | 0.0      |
| 06               | 73.6      | 45.5      | 59.6 | 2.9                   | 1.8                   | 2.1                   | 163.2               | 120.9 | 70.5  | 21.4  | 3.3  | 1.2  | 26.7                | 44.5   | 84.1   | 184.9  | 0.0                 | 1.1       | 29.8      | 0.0       | 0.4       | 0.0      |
| 07               | 83.9      | 49.9      | 66.9 | 4.4                   | 2.3                   | 3.2                   | 370.5               | 311.1 | 226.4 | 105.2 | 28.9 | 13.8 | 1.7                 | 4.3    | 12.6   | 46.4   | 0.2                 | 8.7       | 31.0      | 0.0       | 0.0       | 0.0      |
| 08               | 83.2      | 48.4      | 65.8 | 3.6                   | 1.6                   | 2.2                   | 342.6               | 285.4 | 204.0 | 90.0  | 22.0 | 9.4  | 7.9                 | 12.7   | 24.3   | 65.2   | 0.0                 | 9.1       | 31.0      | 0.0       | 0.3       | 0.0      |
| 09               | 72.5      | 39.6      | 56.1 | 3.6                   | 2.0                   | 2.3                   | 113.4               | 82.2  | 46.3  | 12.3  | 1.3  | 0.3  | 82.0                | 110.8  | 164.9  | 280.9  | 0.0                 | 1.6       | 29.2      | 0.0       | 4.2       | 0.0      |
| 10               | 57.4      | 29.5      | 43.5 | 4.1                   | 2.8                   | 3.2                   | 12.6                | 6.9   | 2.2   | 0.1   | 0.0  | 0.0  | 370.6               | 426.9  | 515.2  | 668.1  | 0.0                 | 0.0       | 24.2      | 1.0       | 18.8      | 0.0      |
| 11               | 44.6      | 20.6      | 32.6 | 4.8                   | 3.1                   | 3.9                   | 0.4                 | 0.1   | 0.0   | 0.0   | 0.0  | 0.0  | 672.4               | 732.1  | 822.0  | 972.0  | 0.0                 | 0.0       | 11.8      | 4.2       | 25.9      | 1.7      |
| 12               | 35.4      | 14.7      | 25.0 | 5.3                   | 5.1                   | 5.2                   | 0.0                 | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 928.2               | 990.3  | 1083.3 | 1238.3 | 0.0                 | 0.0       | 3.9       | 8.7       | 29.2      | 4.9      |
| Summary          | 57.6      | 30.0      | 43.8 | 4.4                   | 3.3                   | 3.6                   | 1053                | 838   | 562   | 230   | 56   | 25   | 5107                | 5622   | 6441   | 7934   | 0.2                 | 20.6      | 238.7     | 32.6      | 190.8     | 19.2     |

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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                  | 0.31   | 3.8                 | 1.1     | 0.0     | 0.0     | 0.08                                                                                                                   | 0.30  | 0.42  |
| 02                  | 0.30   | 3.3                 | 0.8     | 0.0     | 0.0     | 0.06                                                                                                                   | 0.19  | 0.39  |
| 03                  | 0.55   | 4.8                 | 1.6     | 0.1     | 0.0     | 0.35                                                                                                                   | 0.52  | 0.78  |
| 04                  | 1.34   | 8.0                 | 4.1     | 0.9     | 0.2     | 0.77                                                                                                                   | 1.07  | 1.62  |
| 05                  | 2.53   | 9.1                 | 4.6     | 1.2     | 0.3     | 1.94                                                                                                                   | 2.29  | 2.83  |
| 06                  | 2.81   | 10.7                | 6.5     | 1.6     | 0.4     | 1.67                                                                                                                   | 2.60  | 3.70  |
| 07                  | 1.42   | 8.3                 | 4.3     | 0.8     | 0.2     | 0.56                                                                                                                   | 1.20  | 1.92  |
| 08                  | 1.25   | 6.1                 | 3.0     | 0.5     | 0.1     | 0.45                                                                                                                   | 0.96  | 1.52  |
| 09                  | 1.07   | 4.9                 | 2.3     | 0.4     | 0.0     | 0.57                                                                                                                   | 1.02  | 1.25  |
| 10                  | 0.68   | 4.9                 | 2.0     | 0.2     | 0.0     | 0.30                                                                                                                   | 0.61  | 1.00  |
| 11                  | 0.51   | 3.9                 | 1.6     | 0.2     | 0.0     | 0.17                                                                                                                   | 0.40  | 0.66  |
| 12                  | 0.41   | 3.0                 | 1.0     | 0.1     | 0.0     | 0.06                                                                                                                   | 0.34  | 0.61  |
| Summary             | 13.18  | 70.8                | 32.9    | 6.0     | 1.2     | 6.98                                                                                                                   | 11.50 | 16.70 |

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U.S. Department of Commerce  
National Oceanic & Atmospheric Administration  
National Environmental Satellite, Data, and Information Service

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Summary of Monthly Normals  
1991-2020  
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National Centers for Environmental Information  
151 Patton Avenue  
Asheville, North Carolina 28801

| 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         | 3.70             | 2.9                    | 2.6  | 0.6 | 0.1  | 0.0   |                          |     |     |     | 0.60                                                                                              | 1.70 | 5.20 |
| 02         | 1.90             | 2.3                    | 1.6  | 0.3 | 0.2  | 0.0   |                          |     |     |     | 0.10                                                                                              | 0.60 | 2.00 |
| 03         | 2.60             | 2.3                    | 1.7  | 0.5 | 0.2  | 0.0   |                          |     |     |     | 0.20                                                                                              | 1.00 | 3.90 |
| 04         | 3.10             | 1.5                    | 1.3  | 0.4 | 0.2  | 0.0   |                          |     |     |     | 0.00                                                                                              | 2.00 | 4.50 |
| 05         | 0.30             | 0.1                    | 0.1  | 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   |                          |     |     |     | 0.00                                                                                              | 0.00 | 0.00 |
| 07         | 0.00             | 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   |                          |     |     |     | 0.00                                                                                              | 0.00 | 0.00 |
| 09         | 0.10             | 0.1                    | 0.0  | 0.0 | 0.0  | 0.0   |                          |     |     |     | 0.00                                                                                              | 0.00 | 0.00 |
| 10         | 0.60             | 0.4                    | 0.3  | 0.1 | 0.0  | 0.0   |                          |     |     |     | 0.00                                                                                              | 0.00 | 0.10 |
| 11         | 3.60             | 1.9                    | 1.4  | 0.3 | 0.1  | 0.0   |                          |     |     |     | 0.00                                                                                              | 1.20 | 6.60 |
| 12         | 3.70             | 2.5                    | 2.1  | 0.5 | 0.2  | 0.1   |                          |     |     |     | 0.10                                                                                              | 2.50 | 5.00 |
| Summary    | 19.6             | 14.0                   | 11.1 | 2.7 | 1.0  | 0.1   | 0.0                      | 0.0 | 0.0 | 0.0 | 1.0                                                                                               | 9.0  | 27.3 |

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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                                      | 8.0 | 14.2 | 42.3 | 116.8 | 343.4 | 586.6 | 833.4 | 799.3 | 485.6 | 178.9 | 42.7 | 6.4 |
| 45                                      | 1.2 | 4.0  | 12.1 | 50.7  | 213.3 | 437.6 | 678.7 | 644.8 | 344.0 | 92.6  | 13.9 | 0.9 |
| 50                                      | 0.1 | 0.8  | 1.9  | 17.0  | 111.4 | 292.5 | 523.8 | 491.7 | 215.1 | 39.1  | 3.0  | 0.0 |
| 55                                      | 0.0 | 0.1  | 0.0  | 4.3   | 45.8  | 163.2 | 370.5 | 342.6 | 113.4 | 12.6  | 0.4  | 0.0 |
| 60                                      | 0.0 | 0.0  | 0.0  | 0.7   | 11.5  | 70.5  | 226.4 | 204.0 | 46.3  | 2.2   | 0.0  | 0.0 |
| Growing Degree Units for Corn (Monthly) |     |      |      |       |       |       |       |       |       |       |      |     |
| 50/86                                   | 5.1 | 14.0 | 57.2 | 105.9 | 232.1 | 360.6 | 521.8 | 507.3 | 340.0 | 149.0 | 41.0 | 4.0 |

| Growing Degree Units (Accumulated Monthly)          |   |    |    |     |     |      |      |      |      |      |      |      |
|-----------------------------------------------------|---|----|----|-----|-----|------|------|------|------|------|------|------|
| 40                                                  | 8 | 22 | 64 | 181 | 525 | 1111 | 1945 | 2744 | 3230 | 3408 | 3451 | 3458 |
| 45                                                  | 1 | 5  | 17 | 68  | 281 | 719  | 1398 | 2042 | 2386 | 2479 | 2493 | 2494 |
| 50                                                  | 0 | 1  | 3  | 20  | 131 | 424  | 948  | 1439 | 1654 | 1693 | 1696 | 1696 |
| 55                                                  | 0 | 0  | 0  | 4   | 50  | 213  | 584  | 926  | 1040 | 1052 | 1053 | 1053 |
| 60                                                  | 0 | 0  | 0  | 1   | 12  | 83   | 309  | 513  | 559  | 562  | 562  | 562  |
| Growing Degree Units for Corn (Monthly Accumulated) |   |    |    |     |     |      |      |      |      |      |      |      |
| 50/86                                               | 5 | 19 | 76 | 182 | 414 | 775  | 1297 | 1804 | 2144 | 2293 | 2334 | 2338 |

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.