

Summary of Monthly Normals  
1981-2010

Generated on 04/29/2024

Current Location: Elev: 4560 ft. Lat: 48.7386° N Lon: 113.4295° W  
Station: **ST. MARY, MT US USC00247292**

| 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               | 32.2      | 14.7      | 23.5 | 4.8                   | 7.3                   | 6.0                   | 0                   | 0     | 0     | 0     | 0     | 0     | 978                 | 1040 | 1133 | 1288 | 0.0                 | 0.0       | 1.1       | 12.2      | 26.6      | 6.6      |
| 02               | 35.7      | 16.8      | 26.2 | 5.2                   | 6.4                   | 5.6                   | 0                   | 0     | 0     | 0     | 0     | 0     | 805                 | 861  | 945  | 1085 | 0.0                 | 0.0       | 2.5       | 8.1       | 24.3      | 4.5      |
| 03               | 41.7      | 21.9      | 31.8 | 4.2                   | 4.8                   | 4.3                   | -7777               | -7777 | 0     | 0     | 0     | 0     | 719                 | 781  | 874  | 1029 | 0.0                 | 0.0       | 5.8       | 3.9       | 25.8      | 2.1      |
| 04               | 50.9      | 28.1      | 39.5 | 3.4                   | 3.2                   | 3.0                   | 2                   | -7777 | -7777 | -7777 | 0     | 0     | 467                 | 525  | 615  | 765  | 0.0                 | 0.0       | 15.8      | 1.1       | 20.6      | 0.2      |
| 05               | 60.4      | 35.8      | 48.1 | 4.4                   | 2.0                   | 3.0                   | 26                  | 15    | 6     | 1     | 0     | 0     | 240                 | 291  | 375  | 525  | 0.0                 | -7777     | 25.4      | 0.1       | 9.3       | 0.0      |
| 06               | 68.1      | 41.8      | 54.9 | 3.8                   | 2.3                   | 2.6                   | 82                  | 56    | 28    | 6     | -7777 | -7777 | 84                  | 117  | 179  | 307  | 0.0                 | 0.2       | 28.7      | 0.0       | 1.6       | 0.0      |
| 07               | 77.6      | 47.1      | 62.4 | 5.7                   | 2.0                   | 3.7                   | 244                 | 192   | 123   | 44    | 9     | 4     | 16                  | 26   | 51   | 126  | -7777               | 2.0       | 30.8      | 0.0       | -7777     | 0.0      |
| 08               | 77.8      | 45.5      | 61.7 | 5.1                   | 2.2                   | 3.3                   | 230                 | 181   | 117   | 40    | 7     | 2     | 24                  | 37   | 66   | 144  | 0.0                 | 2.9       | 30.8      | 0.0       | 0.5       | 0.0      |
| 09               | 66.4      | 38.6      | 52.5 | 6.9                   | 2.2                   | 4.1                   | 70                  | 48    | 24    | 5     | -7777 | -7777 | 145                 | 183  | 249  | 380  | 0.0                 | 0.3       | 26.9      | 0.1       | 5.6       | 0.0      |
| 10               | 53.2      | 32.5      | 42.8 | 4.2                   | 3.0                   | 3.0                   | 11                  | 7     | 3     | -7777 | 0     | 0     | 388                 | 445  | 534  | 687  | 0.0                 | 0.0       | 18.6      | 0.9       | 14.1      | 0.3      |
| 11               | 37.9      | 23.2      | 30.6 | 6.2                   | 6.3                   | 6.1                   | -7777               | -7777 | 0     | 0     | 0     | 0     | 734                 | 793  | 883  | 1033 | 0.0                 | 0.0       | 4.0       | 7.0       | 22.9      | 1.9      |
| 12               | 31.3      | 15.2      | 23.3 | 6.0                   | 7.9                   | 6.8                   | 0                   | 0     | 0     | 0     | 0     | 0     | 984                 | 1046 | 1139 | 1294 | 0.0                 | 0.0       | 1.0       | 14.1      | 27.8      | 5.8      |
| Summary          | 52.8      | 30.1      | 41.4 | 5.0                   | 4.1                   | 4.3                   | 665                 | 499   | 301   | 96    | 16    | 6     | 5584                | 6145 | 7043 | 8663 | 0.0                 | 5.4       | 191.4     | 47.5      | 179.1     | 21.4     |

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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                  | 2.20   | 12.0                | 6.1     | 0.7     | 0.1     | 1.25                                                                                                                   | 2.29  | 2.98  |  |
| 02                  | 1.95   | 9.7                 | 5.1     | 0.7     | 0.2     | 0.99                                                                                                                   | 1.91  | 2.54  |  |
| 03                  | 1.69   | 10.6                | 5.9     | 0.7     | 0.0     | 1.14                                                                                                                   | 1.54  | 2.15  |  |
| 04                  | 1.93   | 9.4                 | 5.7     | 1.0     | 0.1     | 1.42                                                                                                                   | 1.87  | 2.23  |  |
| 05                  | 2.88   | 10.4                | 6.3     | 1.5     | 0.6     | 1.94                                                                                                                   | 2.58  | 3.37  |  |
| 06                  | 3.37   | 11.8                | 6.8     | 2.0     | 0.9     | 1.84                                                                                                                   | 3.05  | 4.06  |  |
| 07                  | 1.53   | 7.7                 | 3.7     | 0.8     | 0.3     | 0.53                                                                                                                   | 1.00  | 2.47  |  |
| 08                  | 1.63   | 7.7                 | 3.4     | 1.1     | 0.3     | 0.51                                                                                                                   | 1.51  | 2.54  |  |
| 09                  | 2.18   | 8.7                 | 4.9     | 1.1     | 0.4     | 1.13                                                                                                                   | 1.90  | 2.92  |  |
| 10                  | 2.05   | 9.3                 | 5.3     | 1.1     | 0.3     | 1.24                                                                                                                   | 2.07  | 2.80  |  |
| 11                  | 2.47   | 11.1                | 5.9     | 1.4     | 0.3     | 1.35                                                                                                                   | 2.01  | 3.49  |  |
| 12                  | 2.21   | 11.2                | 6.3     | 0.9     | -7777   | 1.65                                                                                                                   | 2.06  | 2.76  |  |
| Summary             | 26.09  | 119.6               | 65.4    | 13.0    | 3.5     | 14.99                                                                                                                  | 23.79 | 34.31 |  |

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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         | 15.5             | 8.1                    | 7.0  | 2.0  | 1.1   | 0.3   |                          |     |     |     | 10.1                                                                                              | 13.3 | 18.9  |
| 02         | 18.6             | 7.2                    | 6.4  | 2.4  | 1.0   | 0.3   |                          |     |     |     | 7.0                                                                                               | 16.5 | 23.1  |
| 03         | 15.9             | 6.4                    | 6.2  | 2.4  | 1.2   | 0.2   |                          |     |     |     | 7.0                                                                                               | 13.0 | 20.0  |
| 04         | 13.2             | 4.5                    | 4.3  | 1.7  | 0.9   | 0.2   |                          |     |     |     | 3.0                                                                                               | 10.0 | 23.0  |
| 05         | 4.8              | 1.3                    | 1.2  | 0.5  | 0.4   | 0.1   |                          |     |     |     | 0.0                                                                                               | 1.5  | 4.6   |
| 06         | 1.0              | 0.1                    | 0.1  | 0.1  | 0.1   | 0.0   |                          |     |     |     | 0.0                                                                                               | 0.0  | 0.0   |
| 07         | 0.0              | 0.0                    | 0.0  | 0.0  | 0.0   | 0.0   |                          |     |     |     | 0.0                                                                                               | 0.0  | 0.0   |
| 08         | 0.0              | 0.0                    | 0.0  | 0.0  | 0.0   | 0.0   |                          |     |     |     | 0.0                                                                                               | 0.0  | 0.0   |
| 09         | 1.7              | 0.9                    | 0.6  | 0.1  | -7777 | 0.0   |                          |     |     |     | 0.0                                                                                               | 0.0  | 2.0   |
| 10         | 8.5              | 2.9                    | 2.4  | 1.1  | 0.5   | 0.1   |                          |     |     |     | 2.2                                                                                               | 6.0  | 9.3   |
| 11         | 17.8             | 6.4                    | 5.1  | 1.9  | 1.1   | 0.4   |                          |     |     |     | 10.8                                                                                              | 14.2 | 24.5  |
| 12         | 20.8             | 7.8                    | 6.7  | 2.2  | 1.2   | 0.2   |                          |     |     |     | 10.2                                                                                              | 16.9 | 27.0  |
| Summary    | 117.8            | 45.6                   | 40.0 | 14.4 | 7.5   | 1.8   | 0.0                      | 0.0 | 0.0 | 0.0 | 50.3                                                                                              | 91.4 | 152.4 |

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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                                      | 6     | 9     | 22    | 88    | 268 | 450 | 692 | 671 | 385 | 164 | 28    | 4     |
| 45                                      | 1     | 2     | 5     | 35    | 152 | 305 | 538 | 517 | 255 | 84  | 10    | 1     |
| 50                                      | -7777 | -7777 | 1     | 10    | 71  | 177 | 386 | 367 | 148 | 36  | 3     | -7777 |
| 55                                      | 0     | 0     | -7777 | 2     | 26  | 82  | 244 | 230 | 70  | 11  | -7777 | 0     |
| 60                                      | 0     | 0     | 0     | -7777 | 6   | 28  | 123 | 117 | 24  | 3   | 0     | 0     |
| Growing Degree Units for Corn (Monthly) |       |       |       |       |     |     |     |     |     |     |       |       |
| 50/86                                   | 2     | 4     | 14    | 69    | 178 | 278 | 434 | 431 | 259 | 100 | 11    | 1     |

| Growing Degree Units (Accumulated Monthly)          |   |    |    |     |     |     |      |      |      |      |      |      |
|-----------------------------------------------------|---|----|----|-----|-----|-----|------|------|------|------|------|------|
| 40                                                  | 6 | 15 | 37 | 125 | 393 | 843 | 1535 | 2206 | 2591 | 2755 | 2783 | 2787 |
| 45                                                  | 1 | 3  | 8  | 43  | 195 | 500 | 1038 | 1555 | 1810 | 1894 | 1904 | 1905 |
| 50                                                  | 0 | 0  | 1  | 11  | 82  | 259 | 645  | 1012 | 1160 | 1196 | 1199 | 1199 |
| 55                                                  | 0 | 0  | 0  | 2   | 28  | 110 | 354  | 584  | 654  | 665  | 665  | 665  |
| 60                                                  | 0 | 0  | 0  | 0   | 6   | 34  | 157  | 274  | 298  | 301  | 301  | 301  |
| Growing Degree Units for Corn (Monthly Accumulated) |   |    |    |     |     |     |      |      |      |      |      |      |
| 50/86                                               | 2 | 6  | 20 | 89  | 267 | 545 | 979  | 1410 | 1669 | 1769 | 1780 | 1781 |

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86.

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