

Summary of climatic data by months for the 2021-2022 crop year (October thru September) and averages for the period 1949-2022 at the Eastern Agricultural Research Center, Sidney, Montana, irrigated and dryland site.

| Month Year | Oct 2021 | Nov 2021 | Dec 2021 | Jan 2022 | Feb 2022 | Mar 2022 | Apr 2022 | May 2022 | June 2022 | July 2022 | Aug 2022 | Sept 2022 | Total |
|--------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|--------------|--------------|
| <u>Precipitation (inches)</u> | | | | | | | | | | | | | |
| Current Year-Irrigated | 1.56 | 0.27 | 0.48 | 0.09 | 0.21 | 0.18 | 1.79 | 5.64 | 2.68 | 1.81 | 0.14 | 0.41 | 15.26 |
| Avg. 1949 to 2022 | 0.91 | 0.48 | 0.43 | 0.39 | 0.35 | 0.53 | 1.13 | 2.19 | 2.70 | 2.05 | 1.43 | 1.35 | 13.94 |
| Current Year-Dryland | 1.24 | 0.27 | 0.48 | 0.09 | 0.21 | 0.18 | 1.73 | 4.69 | 2.24 | 1.21 | 0.05 | 0.31 | 12.70 |
| <u>Temperature (F °)</u> | | | | | | | | | | | | | |
| Ave. Maximum Temp | 60.2 | 47.3 | 25.0 | 29.1 | 31.3 | 45.4 | 45.6 | 66.1 | 75.7 | 84.6 | 87.0 | 77.9 | 56.3 |
| Ave. Minimum Temp | 35.6 | 22.4 | 4.0 | 5.7 | 7.3 | 18.8 | 25.9 | 41.8 | 51.4 | 57.2 | 56.7 | 46.2 | 31.1 |
| Current Year Mean Temp | 47.9 | 34.9 | 14.5 | 17.4 | 19.3 | 32.1 | 35.8 | 54.0 | 63.6 | 70.9 | 71.9 | 62.1 | 43.7 |
| Avg. 1949 to 2022 | 45.7 | 30.3 | 18.3 | 13.5 | 19.2 | 30.6 | 44.3 | 55.9 | 64.6 | 70.2 | 68.8 | 58.1 | 43.3 |

Last killing frost in spring *

2022 May 2, 2022 (31.6°F)
 Avg. 1949 to 2022 May 15

First killing frost in fall *

2022 October 6, 2022 (30.5°F)
 Avg. 1949 to 2022 September 22

Frost-free period

2022 157
 Avg. 1949 to 2022 130

Growing degree days (base 50) **

May 1 - First killing frost 2427.0
 Avg. 1949 to 2022 2252.2

Maximum summer temperature August 4, 2022 (99.9°F)

Minimum winter temperature January 6, 2022 (-23.9°F)

* 32° is considered a killing frost. ** In calculating growing degree days, 29° is considered a killing frost.

NOTE: *Precipitation* derived from: NDAWN April - October & National Weather Service November – March. *Temperature:* NDAWN