

Summary of climatic data for the 2019 crop year: September, 2018 – August 31, 2019
Northwestern Agricultural Research Center, Creston, Montana

| Month Year | SEPT 2018 | OCT 2018 | NOV. 2018 | DEC. 2018 | JAN. 2019 | FEB. 2019 | MAR. 2019 | APR. 2019 | MAY 2019 | JUNE 2019 | JULY 2019 | AUG. 2019 | |
|-------------------------------------|----------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|----------------------|----------------------|----------------------|-----------------------|
| <u>Precipitation (in.)</u> | | | | | | | | | | | | | <u>Total</u> |
| Current Year | 0.59 | 1.17 | 1.52 | 0.46 | 1.37 | 1.79 | 0.98 | 1.19 | 1.63 | 1.96 | 1.12 | 0.65 | 14.43 |
| Average (1980-2019) | 1.54 | 1.42 | 1.59 | 1.56 | 1.38 | 1.24 | 1.31 | 1.75 | 2.30 | 3.27 | 1.47 | 1.04 | 19.84 |
| Difference | -0.95 | -0.25 | -0.07 | -1.10 | -0.01 | 0.55 | -0.33 | -0.56 | -0.67 | -1.31 | -0.35 | -0.39 | -5.41 |
| <u>Mean Temperature (°F)</u> | | | | | | | | | | | | | <u>Average</u> |
| Current Year | 55.5 | 44.7 | 37.3 | 28.95 | 25.6 | 11.3 | 25.5 | 43.9 | 53.5 | 59.4 | 63.4 | 64.8 | 42.8 |
| Average (1980-2019) | 53.9 | 42.5 | 32.7 | 24.4 | 24.6 | 26.7 | 34.9 | 43.1 | 51.6 | 57.8 | 64.5 | 63.6 | 43.3 |
| Difference | 1.6 | 2.2 | 4.6 | 4.6 | 1.0 | -15.4 | -9.4 | 0.8 | 1.9 | 1.6 | -1.1 | 1.2 | -0.5 |

Last killing frost in spring*

Spring, 2019: May 8

Average (1980-2018): May 19 (31°F)

First killing frost in fall*

Fall, 2019: September 27 (32°F)

Average (1980-2018): September 19

Frost-free period

2019: 141 days

Average (1980-2019): 124 days

Maximum summer temperature: 93°F (August 22nd, 2019)

Minimum winter temperature: -22°F (March 3rd, 2019)

Growing degree days (base 50)

May 1st – September 30th, 2019: 1795 GDD

Average (2016-2018): 1849.2 GDD

*32 °F is considered a killing frost