

Summary of climatic data by months for the 2018-2019 cropping year (September-August) compared to averages for the period of record from 1911 to 2018 at the Southern Agricultural Research Center near Huntley, Montana.

	2018				2019								Year
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	
<u>Precipitation (inches)</u>													<u>Total</u>
Current Year (2018-2019)	0.36	0.66	0.48	0.40	0.61	1.44	0.28	1.53	3.48	2.32	1.71	1.70	14.97
Average (1911-2018)	1.31	1.10	0.63	0.61	0.55	0.47	0.80	1.38	2.22	2.32	1.13	0.97	13.49
Difference	-0.95	-0.44	-0.15	-0.21	0.06	0.97	-0.52	0.15	1.26	0.00	0.58	0.73	1.48
<u>Mean Temperature (°F)</u>													<u>Average</u>
Current Year (2018-2019)	57.3	44.0	34.7	28.9	25.4	6.3	24.8	46.2	50.4	63.0	69.6	70.6	43.43
Average (1911-2018)	58.2	46.9	33.7	23.8	21.1	25.8	34.4	45.5	55.0	63.4	70.9	68.8	45.63
Difference	-0.9	-2.9	1.0	5.1	4.3	-19.5	-9.6	0.7	-4.6	-0.4	-1.3	1.8	-2.20

Last Killing Frost in Spring^{1/} 2019 32 °F on May 10
Average (1911-2018) May 17

First Killing Frost in the Fall^{1/} 2019 30°F on September 21
Average (1911-2018) September 19

Frost-free Period 2019 134 days
Average (1911-2018) 125 days

Growing Degree Days (Base 50)^{2/} 2019 2,079 GDD (°F)
Average (1911-2018) 2,220 GDD (°F)

Growing Degree Days (Base Corn)^{2/} 2019 2,508 GDD (°F)
Average (1911-2018) 2,760 GDD (°F)

Maximum Summer Temperature 97°F on August 3, 4, and 5, 2019

Minimum Winter Temperature -33 °F on March 3, 2019

1/ 32 °F is considered a killing frost. Average last and first killing frost dates are calculated on a 50% probability of a minimum temperature occurring below the threshold temperature of 32.5 °F based on observations from 1911 to 2018.

2/ Growing degree days calculated from temperatures observed during the frost free period from May 10th through September 21st, 2019, and for the same 145-day interval from the period of record of 1911 to 2018.