

2019 winter wheat variety trial, Moccasin, Montana

Variety/Pedigree	Year of Release	Source	Heading Date		Height (in)	Test Weight (lb/bu)	Protein (%)	Gross Return (\$/ac)	Grain Yield (bu/ac)			3 yr Avg
			cal	jul					2017	2018	2019	
+ AAC Wildfire	2015	Alberta: SECAN	26-Jun	177	34.7	61.3	9.7	<b>349.40</b>			77.9	
Brawl CL Plus	2011	Colorado Research Foundation	14-Jun	<u>165</u>	28.9	<b><u>65.0</u></b>	<b>10.9</b>	266.39	61.4	59.1	63.1	61.2
+ Byrd CL Plus	2018	Plainsgold/Col. Wheat Res Fdn	17-Jun	169	32.2	61.0	9.0	<b>367.47</b>			76.2	
Decade	2010	Montana/North Dakota	18-Jun	169	33.0	<b>63.8</b>	<b>10.4</b>	296.12	58.2	59.3	72.0	63.2
FourOsix	2018	Montana (MT1465)	20-Jun	171	30.5	63.1	9.5	<b>337.09</b>		70.0	76.3	
Judee	2011	Montana	19-Jun	170	31.3	<b>64.5</b>	10.1	300.98	59.7	57.9	69.6	62.4
Keldin	2011	Westbred	23-Jun	174	31.6	<b>63.5</b>	9.6	<b>331.74</b>	<b>71.5</b>	66.3	73.0	70.3
LCS Jet	2015	Limagrain Cereal Seeds	19-Jun	170	29.0	59.9	8.8	<b>380.90</b>	-	<b>70.7</b>	<b>86.0</b>	
Loma	2016	Montana	20-Jun	171	30.5	63.0	9.6	<b>340.04</b>	55.7	<b>68.0</b>	71.6	65.1
MT1564 (Flathead)	2019	Montana	16-Jun	167	30.6	<b>64.0</b>	10.1	280.49			64.4	
MTS1588 (Bobcat)	2019	Montana	20-Jun	171	29.9	<b>63.7</b>	9.8	<b>348.82</b>			71.4	
Northern	2015	Montana	22-Jun	174	31.9	63.1	9.8	329.61	60.5	66.5	<b>79.4</b>	68.8
Ray	2018	Montana (MTF1432)	24-Jun	175	36.4	61.4	9.0	259.69	-	<b>78.9</b>	56.7	
SY Clearstone 2CL	2012	Montana/Syngenta	20-Jun	171	34.7	62.6	9.3	<b>347.32</b>	<b>68.5</b>	<b>67.8</b>	<b>80.6</b>	72.3
SY Monument	2015	Syngenta	18-Jun	169	29.6	63.4	9.6	<b>354.49</b>	<b>61.6</b>	<b>71.5</b>	77.6	70.2
Warhorse	1013	Montana	19-Jun	170	30.4	<b>63.6</b>	<b>10.3</b>	278.09	57.8	60.6	66.0	61.5
Yellowstone	2005	Montana	20-Jun	171	33.9	62.9	9.6	321.07	<b>63.1</b>	<b>68.7</b>	71.9	67.9
Average			19-Jun	170	30.5	63.2	10.1	312.34	60.3	65.5	71.2	
LSD (0.05)			2.5	2.5	2.3	1.7	0.6	50.5	10.0	10.4	9.4	
CV (%)			0.9	0.9	4.4	1.6	3.8	10.0	9.9	11.1	7.6	
P-value			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.1119	0.0006	<0.0001	

+ = New for 2019

Bolded and underlined values are the highest mean. Bolded values are not different from the highest value based on the Least Significant Difference (LSD) test

Note: Study averages include experimental lines not listed here.

N.S. = Not Significant