

2019 winter wheat variety trial, Highwood, Montana

Variety/Pedigree	Year of Release	Source	Height (in)	Test Weight (lb/bu)	Protein (%)	Gross Return (\$/bu)	Grain Yield (bu/ac)			3 yr avg
							2017	2018	2019	
+ AAC Wildfire	2015	Alberta: SECAN	29.8	62.4	11.3	268.5			61.9	-
Brawl CLP	2011	Colorado Research Foundation	23.0	62.4	<u>12.1</u>	178.7	35.6	21.5	38.5	31.9
+ Byrd CL Plus	2018	Plainsgold/Col. Wheat Res Fdn	27.3	61.9	10.6	249.7			58.8	
Decade	2010	Montana/North Dakota	29.1	61.4	11.5	247.8	64.2	45.2	57.5	55.6
FourOsix	2018	Montana (MT1465)	26.7	61.6	11.1	240.6		38.9	53.3	
Judee	2011	Montana	25.1	63.0	11.7	221.3	56.5	50.8	49.7	52.3
Keldin	2011	Westbred	26.8	60.9	11.7	215.8	55.4	32.6	44.4	44.1
LCS Jet	2015	Limagrain Cereal Seeds	22.4	59.4	11.0	189.5		39.4	49.0	
Loma	2016	Montana	24.9	61.5	11.8	272.1	60.9	36.6	55.2	50.9
MT1564 (Flathead)	2019	Montana	26.9	62.0	<u>12.1</u>	199.6			42.1	
MTS1588 (Bobcat)	2019	Montana	25.0	59.4	11.9	209.9			44.7	
Northern	2015	Montana	26.8	61.7	11.1	245.6	60.5	33.8	58.3	50.9
Ray	2018	Montana (MTF1432)	32.3	60.5	12.0	210.4		31.1	42.1	
SY Clearstone 2CL	2012	Montana/Syngenta	29.9	61.1	10.8	233.5	67.6	45.9	55.7	56.4
SY Monument	2015	Syngenta	26.9	60.9	10.9	239.3	65.0	46.4	60.6	57.3
Warhorse	1013	Montana	26.5	61.4	<u>12.1</u>	<u>234.7</u>	51.2	43.3	47.9	47.5
Yellowstone	2005	Montana	29.3	61.4	10.6	249.4	53.2	35.2	54.2	47.5
Average			26.7	61.5	11.5	228.0	57.2	36.4	51.5	
LSD (0.05)			2.1	1.2	1.3	55.1	8.9	8.79	8.6	
CV (%)			4.4	1.2	6.8	14.7	8.4	13.3	9.1	
P-value			<0.0001	<0.0001	0.0280	0.0730	<0.0001	<0.0001	<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