

2019 barley variety trial, Moccasin, Montana

Variety/Pedigree	Year of Release	Source	Height (in)	Test Weight (lb/bu)	Plumps	Grain Yield (bu/ac)			
						2017	2018	2019	3 yr avg
AAC Connect	2016	Meridian	22.7	52.9	82.5		47.7	72.5	60.1
Balster			24.3	52.9	90.0	32.0		73.7	52.9
Champion	2007		24.7	<u>56.3</u>	91.9	38.3	50.5	74.9	54.6
Conrad	2007		24.7	52.9	90.3	37.4		68.5	53.0
Copeland			27.3	54.2	89.7	38.7		66.2	52.5
+ Craft			27.3	56.0	96.0			71.8	71.8
+ Expedition			21.3	54.9	88.5			73.7	73.7
Fraser	2015	CDC	24.3	52.6	94.6			76.8	76.8
Genie			22.0	53.9	87.2	37.9		68.3	53.1
Growler			23.7	53.3	83.6	28.0		62.6	45.3
Haxby	2003	MAES	23.0	56.0	87.4	34.3	49.9	72.8	52.3
Haybet	1989	MAES/USDA	29.7	53.5	59.7	33.7		47.0	40.4
Hays	2003	MAES	23.7	52.4	76.9	33.8		67.8	50.8
Hockett	2008	MAES	25.3	55.7	92.1	34.8	52.6	69.7	52.4
Lavina	1989	MAES/USDA	25.3	52.7	69.8	36.3		62.7	49.5
Merit 57			25.0	52.8	83.2	28.8	53.9	66.7	49.8
Metcalfe		Canada	26.0	54.7	84.0	36.9	45.7	65.4	49.3
Odyssey			21.3	53.5	81.5	34.3		79.0	56.6
+ Opera			21.0	52.4	73.1		62.3	75.4	68.8
Synergy			24.7	53.7	<u>96.7</u>	34.6		69.6	52.1
+ Voyager			24.0	53.6	93.0			66.8	66.8
Average			24.3	54.2	87.2	34.3	52.5	67.5	
LSD (0.05)			1.9	1.4	7.8	N.S.	9.7	10.4	
CV (%)			4.7	1.6	5.4	15.8	11.5	9.4	
P-value			<0.0001	<0.0001	<0.0001	0.5901	<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