

Table 3: 2020 Spring barley variety trial, Geraldine, Montana

Variety/Pedigree	Year of Release	Source	Height (in)	Test Weight (lb/bu)	Protein (%)	Plumps (%)	Grain Yield (bu/ac)			3 yr Avg
							2018	2019	2020	
AAC Synergy			17.8	50.9	9.1	92.1			38.3	38.3
ABI Voyager			18.0	50.8	9.5	94.3			29.1	29.1
Balster			17.1	51.6	8.8	89.1	93.6	65.6	39.8	66.3
Buzz			16.3	53.3	7.9	<u>95.0</u>			30.2	30.2
CDC Copeland			<u>18.4</u>	53.1	10.0	91.7	85.6	63.0	37.0	61.9
Craft			17.8	<u>53.6</u>	9.0	94.6		60.9	41.6	51.3
Diablo			16.5	52.4	9.0	87.5			43.2	43.2
Ellinore			16.1	52.1	8.8	88.8			44.2	44.2
Expedition			16.6	51.5	9.4	91.6		73.7	46.2	60.0
Genie			15.5	<u>53.6</u>	8.7	89.3	95.7	71.5	39.4	68.9
Growler			17.5	50.5	10.3	86.2	94.0	67.7	38.7	66.8
Haxby	2003	MAES	17.4	53.1	9.8	89.1	101.5	66.3	40.0	69.3
Hays	2003	MAES	17.9	53.3	9.7	82.0	89.4	60.8	43.9	64.7
Hockett	2008	MAES	17.1	53.4	8.7	93.6	88.9	64.2	31.9	61.7
Lavina	1989	MAES/USDA	<u>18.4</u>	51.9	9.6	78.7			34.0	34.0
Leandra			15.0	49.5	8.7	91.6			52.3	52.3
Merit 57			17.2	51.3	8.8	78.2	111.0	62.8	34.9	69.6
Metcalfe		Canada	17.9	52.7	8.5	90.8	92.4	55.4	42.1	63.3
Odyssey			15.8	51.0	9.2	87.2	86.7	61.8	44.9	64.5
Opera			16.1	51.8	7.8	83.0		63.4	<u>52.6</u>	58.0
Mean			22.7	50.6	9.1	89.6	93.0	63.6	43.8	
CV%			6.0	6.3	8.7	3.6	17.1	14.1	24.9	
LSD			2.2	5.2	1.3	5.3	11.2	13.5	N.S.	
P-Value			<0.001	0.2450	0.0010	<0.001	0.0030	0.1000	<0.001	

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