

Table 2: 2020 Spring barley variety trial, Denton, Montana

Variety/Pedigree	Year of Release	Source	Height (in)	Test Weight (lb/bu)	Protein (%)	Plumps (%)	Grain Yield (bu/ac)			
							2018	2019	2020	3 yr Avg
AAC Synergy			17.8	50.9	9.1	<b>92.1</b>			38.3	38.3
ABI Voyager			18.0	50.8	9.5	<b>94.3</b>			29.1	29.1
Balster			17.1	51.6	8.8	<b>89.1</b>	93.6	65.6	39.8	66.3
Buzz			16.3	<b>53.3</b>	7.9	<u>95.0</u>			30.2	30.2
CDC Copeland			18.4	<b>53.1</b>	10.0	<b>91.7</b>	85.6	63.0	37.0	61.9
Craft			17.8	<b>53.6</b>	9.0	<b>94.6</b>		60.9	41.6	51.3
Diablo			16.5	<b>52.4</b>	9.0	87.5			43.2	43.2
Ellinore			16.1	52.1	8.8	<b>88.8</b>			44.2	44.2
Expedition			16.6	51.5	9.4	<b>91.6</b>		<b>73.7</b>	<b>46.2</b>	60.0
Genie			15.5	<b>53.6</b>	8.7	<b>89.3</b>	<b>95.7</b>	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	<b>53.1</b>	9.8	<b>89.1</b>	<b>101.5</b>	66.3	40.0	69.3
Hays	2003	MAES	17.9	<b>53.3</b>	9.7	82.0	89.4	60.8	43.9	64.7
Hockett	2008	MAES	17.1	<b>53.4</b>	8.7	<b>93.6</b>	88.9	64.2	31.9	61.7
Lavina	1989	MAES/USDA	18.4	51.9	9.6	78.7			34.0	34.0
Leandra			15.0	49.5	8.7	<b>91.6</b>			<b>52.3</b>	52.3
Merit 57			17.2	51.3	8.8	78.2	<b>111.0</b>	62.8	34.9	69.6
Metcalfe		Canada	17.9	<b>52.7</b>	8.5	<b>90.8</b>	92.4	55.4	42.1	63.3
Odyssey			15.8	51.0	9.2	87.2	86.7	61.8	<b>44.9</b>	64.5
Opera			16.1	51.8	7.8	83.0		63.4	<b>52.6</b>	58.0
Mean			9.5	56.4	9.6	91.3	93.0	63.6	23.9	
CV%			14.4	1.6	10.4	4.7	17.1	14.1	19.6	
LSD			2.2	1.4	1.6	7.1	11.2	13.5	N.S.	
P-Value			0.2260	0.0020	0.0040	0.0040	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