

2019 barley variety trial, Denton, 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	26.0	50.0	54.6		48.9	58.9	53.9
Balster			26.0	49.3	47.1	27.5	55.3	49.0	43.9
Champion	2007		27.3	53.7	61.7	32.6	46.7	60.6	46.6
Conrad	2007		26.7	51.1	61.4	30.1	48.6	48.8	42.5
Copeland			28.3	50.4	69.2	10.4	43.1	51.7	35.1
+ Craft			27.7	55.1	82.0			51.8	51.8
+ Expedition			23.0	50.5	44.5			51.0	51.0
Fraser	2015	CDC	26.7	48.5	48.5		49.1	52.5	50.8
Genie			25.0	51.9	59.6		50.6	61.7	56.2
Growler			26.7	49.5	49.6		50.7	51.1	50.9
Haxby	2003	MAES	26.0	53.6	70.0	31.9	55.5	59.8	49.1
Haybet	1989	MAES/USDA	31.0	52.9	35.3	29.1	45.1	41.1	38.4
Hays	2003	MAES	28.0	50.2	39.7	26.0	49.0	50.9	42.0
Hockett	2008	MAES	26.3	54.5	78.7	30.6	51.3	52.2	44.7
Lavina	1989	MAES/USDA	29.0	51.0	39.0	27.5	54.5	54.7	45.6
Merit 57			26.7	50.4	38.0	22.9	50.0	45.2	39.4
Metcalfe		Canada	28.0	54.1	74.7	31.6	45.2	53.4	43.4
Odyssey			22.0	52.2	51.4	30.1	50.4	54.4	45.0
+ Opera			22.7	48.6	36.2		-	49.7	49.7
Synergy			28.0	51.5	76.1	30.1	-	54.1	42.1
+ Voyager			26.7	50.7	72.5			50.5	50.5
Average			26.3	51.8	62.5	27.8	48.6	52.0	
LSD (0.05)			2.0	2.2	18.8	6.1	N.S.	10.0	
CV (%)			4.7	2.6	18.3	13.3	15.7	11.8	
P-value			<0.0001	<0.0001	<0.0001	<0.0001	0.3670	0.0456	

+ = 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.

N.S. = Not Significant