



Barley Seeding Rate

Trial ID: 2022-BP01 — R.M. of Wallace-Woodworth

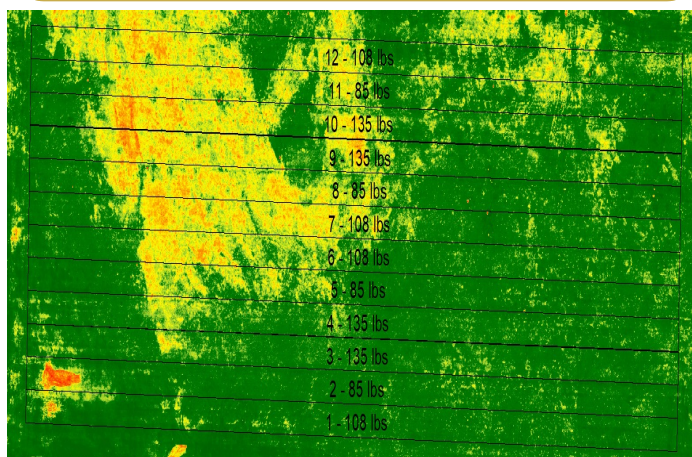
Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal seeding rate in barley.

Summary: There was no significant yield difference between seeding rates of 85, 108 and 135 lbs/ac. As a result, there was a decrease in profit equivalent to the increase in seed cost for the higher seeding rates.

Trial Information

Treatment	85 lbs vs. 108 lbs vs. 135 lbs
Soil Texture	Fine Loams
Previous Crop	Canola
Tillage	Zero Till
Seeding Equipment	60' Air Drill
Seeding Date	May 12
Variety	CDC Austenson
Germination	99%
Row Spacing	12"
Harvest Date	August 12

NDVI Imagery July 24



Barley Response

	Plants/ft ²	Protein (%)	TWT (kg/hL)	Grade
85 lbs	19 ^B	14.5	62.0	2.0
108 lbs	20 ^B	—	—	—
135 lbs	22 ^A	—	—	—

Precipitation[†] (mm)

	May	June	July	Aug	Total
Rainfall	103	90	70	35	298
Normal	40	72	68	51	231
% Normal	258%	125%	102%	69%	129%

[†]Growing season precipitation (mm) - May 01—Aug 15

Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac ^{††}
85 lbs	97.1	\$25/ac	+\$7/ac
108 lbs	92.9	\$32/ac	\$0/ac
135 lbs	97.6	\$39/ac	-\$7/ac
P-Value	0.6069	Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.	
CV	7.36%		
Significance	No		

[†]Based on MB Agriculture 2022 Cost of Production Guidelines (\$28.00/ac)

^{††}Change in profit is calculated as the difference in cost between seeding rate treatments.



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