



Barley Seeding Rate

Trial ID: 2023-BP06 — R.M. of MacDonald

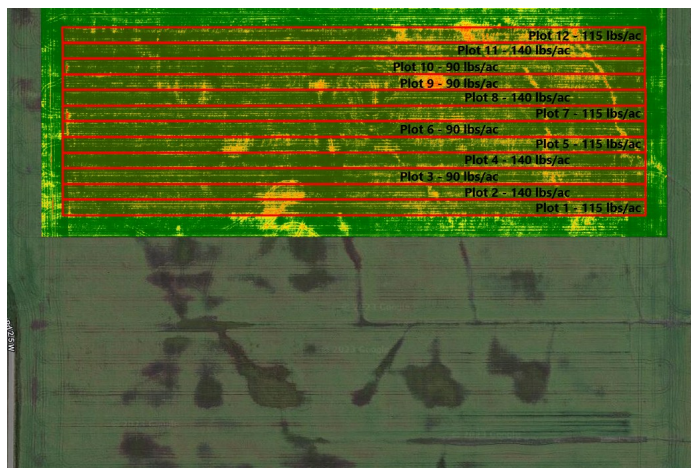
Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal seeding rate in barley.

Summary: There was no significant yield difference between seeding rates of 90, 115 and 140 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	90 lbs vs. 115 lbs vs. 140 lbs
Soil Texture	Clay
Previous Crop	Canola
Tillage	Conventional Tillage
Seeding Equipment	60' Disc Drill
Seeding Date	May 17
Variety	AAC Connect
Germination	94%
Row Spacing	10"
Harvest Date	August 30

NDVI Imagery July 20



Barley Response

	Plants/ft ²	Protein (%)	TWT (kg/hL)	Grade
90 lbs	9	11.3	62	2
115 lbs	10	11.3	62	2
140 lbs	13	11.1	63	1

Precipitation[†] (mm)

	May	June	July	Aug	Cumulative
Rainfall	40	58	26	36	159
Normal	60	84	77	75	295
% Normal	66%	69%	34%	48%	54%

[†]Growing season precipitation (mm)

Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac ^{††}
90 lbs	88.2	\$26.60/ac	+\$7.00/ac
115 lbs	83.8	\$33.60/ac	\$0/ac
140 lbs	90.3	\$40.60/ac	-\$7.00/ac
P-Value	0.0938	Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.	
CV	4.00%		
Significance	No		

[†]Based on MB Agriculture 2023 Cost of Production Guidelines (\$29.00/ac)

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



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