



Barley Seeding Rate

Trial ID: 2023-BP02 — R.M. of Oakland-Wawanesa

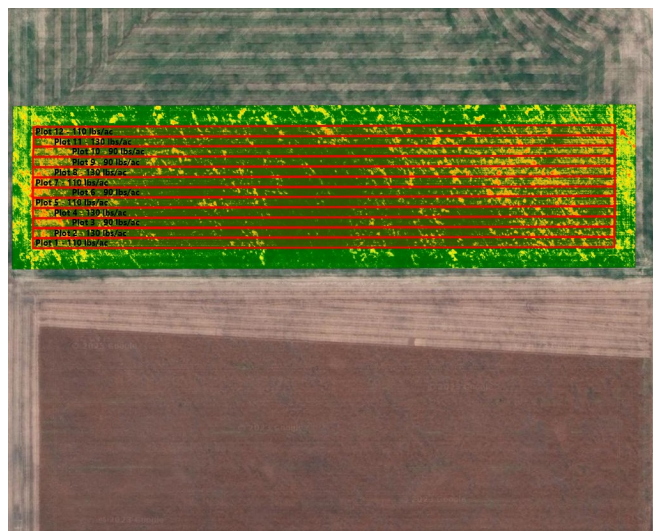
Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal seeding rate in barley.

Summary: There was no significant yield difference between seeding rates of 90, 110 and 130 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. 110 lbs vs. 130 lbs
Soil Texture	Fine Loams
Previous Crop	Canola
Tillage	Minimal Tillage
Seeding Equipment	40' Hoe Drill
Seeding Date	May 10
Variety	AAC Connect
Germination	91%
Row Spacing	10"
Harvest Date	August 17

NDVI Imagery July 12



Barley Response

	Plants/ft ²	Protein (%)	TWT (kg/hL)	Grade
90 lbs	22 ^B	12.3	61	2
110 lbs	26 ^A	12.0	61	2
130 lbs	26 ^A	12.2	61	2

Precipitation[†] (mm)

	May	June	July	Aug	Cumulative
Rainfall	22	104	15	39	180
Normal	76	97	78	69	321
% Normal	29%	108%	20%	56%	56%

[†]Growing season precipitation (mm)

Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac ^{††}
90 lbs	85.7	\$26.60/ac	+\$5.60/ac
110 lbs	86.6	\$32.20/ac	\$0/ac
130 lbs	91.2	\$37.80/ac	-\$5.60/ac
P-Value	0.2752	Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.	
CV	5.25%		
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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