



Barley Seeding Rate

Trial ID: 2023-BP05 — R.M. of St. Francois Xavier

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 115, 140 and 165 lbs/ac. As a result, there was a decrease in profit equivalent to the increase in seed cost for the higher seeding rates.

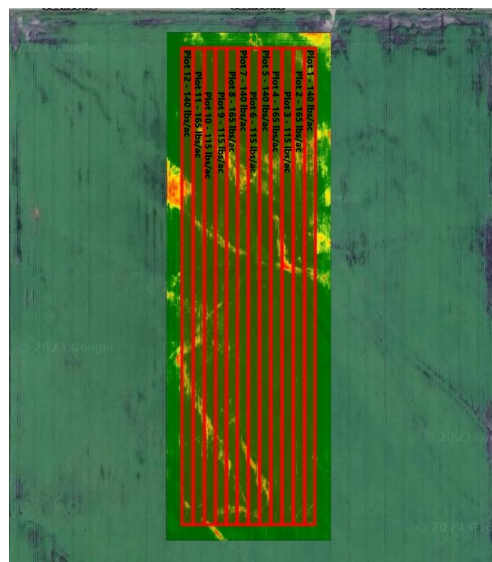
Trial Information

Treatment	115 lbs vs. 140 lbs vs. 165 lbs
Soil Texture	Clay
Previous Crop	Soybeans
Tillage	Minimal Tillage
Seeding Equipment	60' Disc Drill
Seeding Date	May 15
Variety	Claymore
Germination	99%
Row Spacing	10"
Harvest Date	August 21

Barley Response

	Plants/ft ²	Protein (%)	TWT (kg/hL)	Grade
115 lbs	22 ^B	12.7	65	1
140 lbs	23 ^B	12.0	65	1
165 lbs	27 ^A	11.9	66	1

NDVI Imagery July 19



Precipitation[†] (mm)

	May	June	July	Aug	Cumulative
Rainfall	8	61	74	22	165
Normal	60	98	76	68	302
% Normal	14%	62%	97%	32%	54%

[†]Growing season precipitation (mm)

Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac ^{††}
115 lbs	106.1	\$34.80/ac	+ \$7.25/ac
140 lbs	105.2	\$42.05/ac	\$0/ac
165 lbs	113.3	\$49.30/ac	- \$7.25/ac
P-Value	0.2264	Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.	
CV	5.94%		
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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