



Barley Seeding Rate

Trial ID: 2023-BP08 — R.M. of Rockwood

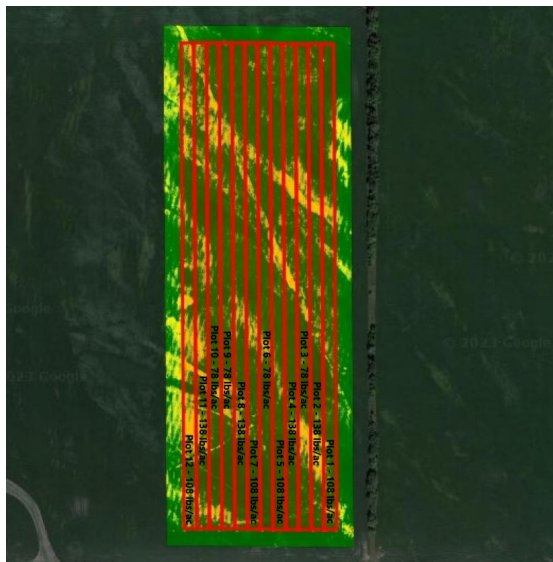
Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal seeding rate in barley.

Summary: There was no significant yield difference between seeding rates of 78, 108 and 138 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	78 lbs vs. 108 lbs vs. 138 lbs
Soil Texture	Clay Loams
Previous Crop	Soybeans
Tillage	Conventional Tillage
Seeding Equipment	60' Disc Drill
Seeding Date	May 24
Variety	CDC Austenson
Germination	100%
Row Spacing	10"
Harvest Date	September 01

NDVI Imagery July 18



Barley Response

	Plants/ft ²	Protein (%)	TWT (kg/hL)	Grade
78 lbs	18	13.4	68	1
108 lbs	20	13.7	67	1
138 lbs	21	13.4	65	1

Precipitation[†] (mm)

	May	June	July	Aug	Cumulative
Rainfall	15	132	37	71	254
Normal	57	90	80	77	303
% Normal	26%	146%	46%	92%	84%

[†]Growing season precipitation (mm)

Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac ^{††}
78 lbs	91.7	\$22.40/ac	+ \$9.10/ac
108 lbs	92.2	\$31.50/ac	\$0/ac
138 lbs	92.0	\$40.60/ac	- \$9.10/ac
P-Value	0.9831	Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.	
CV	3.74%		
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.



MCA would like to thank Tone Ag Consulting Ltd. for the research support and SGS Canada Inc. for quality analysis for this trial.



**MANITOBA
CROP
ALLIANCE**

Phone: 204-745-6661
Website: mbcropalliance.ca
Email: hello@mbcropalliance.ca