Barley Seeding Rate

Trial ID: 2023-BP01 — R.M. of De Salaberry

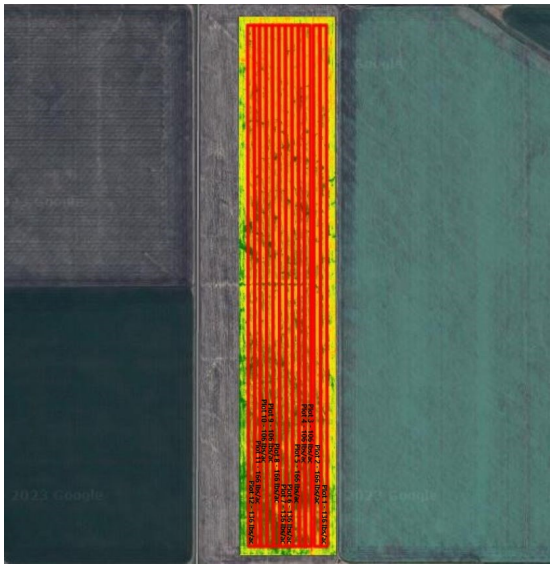
Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal seeding rate in barley.

Summary: There was no significant yield difference between seeding rates of 106, 136 and 166 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	106 lbs vs. 136 lbs vs. 166 lbs
Soil Texture	Clay
Previous Crop	Soybeans
Tillage	Minimal Tillage
Seeding Equipment	60’ Disc Drill
Seeding Date	May 05
Variety	CDC Austenson
Germination	100%
Row Spacing	10”
Harvest Date	August 14

NDVI Imagery July 20



Barley Response

	Plants/ft²	Protein (%)	TWT (kg/hL)	Grade
106 lbs	23	—	—	—
136 lbs	27	12.8	67	1
166 lbs	27	—	—	—

Precipitation† (mm)

	May	June	July	Aug	Cumulative
Rainfall	10	69	44	17	**140**
Normal	69	102	86	84	**340**
% Normal	15%	68%	51%	21%	**41%**

†Growing season precipitation (mm)

Overall Yield & Economics

	Mean (bu/ac)	Cost†	Change in Profit/ac††
106 lbs	81.8	$31.90/ac	+ $8.70/ac
136 lbs	79.1	$40.60/ac	$0/ac
166 lbs	79.7	$49.30/ac	- $8.70/ac
P-Value	0.2622	**Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.**	
CV	2.72%		
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