

Barley Seeding Rate

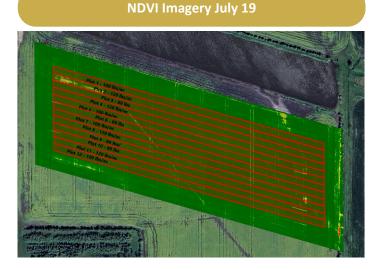
Trial ID: 2023-BP07 — R.M. of Cartier

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 80, 100 and 120 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	80 lbs vs. 100 lbs vs. 120 lbs
Soil Texture	Clay
Previous Crop	Canola
Tillage	Conventional Tillage
Seeding Equipment	30' Hoe Drill
Seeding Date	May 20
Variety	CDC Churchill
Germination	97%
Row Spacing	8″
Harvest Date	August 19



Barley Response					
	Plants/ft ²	Protein (%)	TWT (kg/hL)	Grade	
80 lbs	13 ^c	10.4	65	1	
100 lbs	16 ^B	10.7	64	1	
120 lbs	20 ^A	10.7	63	2	

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%
tGrowing season provinitation (mm)					

+Growing season precipitation (mm)

Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac ⁺⁺		
80 lbs	87.6	\$23.80/ac	+\$5.60/ac		
100 lbs	97.8	\$29.40/ac	\$0/ac		
120 lbs	96.8	\$35.00/ac	-\$5.60/ac		
P-Value	0.1770		Economics: There is an increase in profit for the lower seeding rate due to		
сv	7.84%	the lower cost of seed/a	the lower cost of seed/acre.		
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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