



# Barley Seeding Rate

**Trial ID: 2023-BP04 — R.M. of St. Clements**

**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 105, 135 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	105 lbs vs. 135 lbs vs. 165 lbs
Soil Texture	Clay Loams
Previous Crop	Soybeans
Tillage	Zero Till
Seeding Equipment	65' Disc Drill
Seeding Date	May 10
Variety	AAC Synergy
Germination	98%
Row Spacing	10"
Harvest Date	August 29

## Barley Response

	Plants/ft <sup>2</sup>	Protein (%)	TWT (kg/hL)	Grade
105 lbs	24	11.8	60	2
135 lbs	28	11.8	60	2
165 lbs	28	11.9	59	2

## NDVI Imagery July 18



## Precipitation<sup>†</sup> (mm)

	May	June	July	Aug	Cumulative
Rainfall	11	73	31	27	142
Normal	58	88	87	76	309
% Normal	19%	83%	35%	36%	46%

<sup>†</sup>Growing season precipitation (mm)

## Overall Yield & Economics

	Mean (bu/ac)	Cost <sup>†</sup>	Change in Profit/ac <sup>††</sup>
105 lbs	81.9	\$31.90/ac	+ \$8.70/ac
135 lbs	80.2	\$40.60/ac	\$0/ac
165 lbs	80.3	\$49.30/ac	- \$8.70/ac
P-Value	0.2613	<b>Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.</b>	
CV	1.77%		
Significance	No		

<sup>†</sup>Based on MB Agriculture 2023 Cost of Production Guidelines (\$29.00/ac)

<sup>††</sup>Change in profit is calculated as the difference in cost between seeding rate treatments.



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