

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.

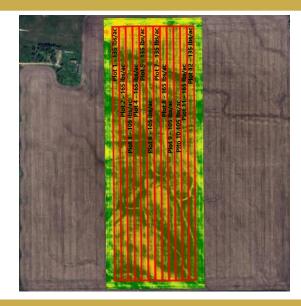
Trial Information

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/ft²	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[†] (mm)

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

[†]Growing season precipitation (mm)

Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac ^{††}		
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		Economics: There is an increase in profit for the lower seeding rate due to		
cv	1.77%	the lower cost of seed/acr	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.



