

Wheat Seeding Rate

Trial ID: 2023-WP01 — R.M. of Brokenhead

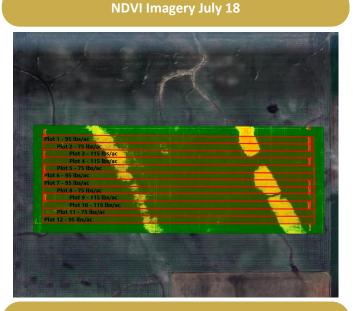
Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal seeding rate in wheat.

Summary: There was no significant yield difference between seeding rates of 75, 95 and 115 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	75 lbs vs. 95 lbs vs. 115 lbs
Soil Texture	Clay Loams
Previous Crop	Sunflower
Tillage	Conventional Tillage
Seeding Equipment	60' Disc Drill
Seeding Date	May 03
Variety	AAC Starbuck VB
Germination	98%
Row Spacing	10"
Harvest Date	August 19

	Wheat Response					
	Plants/ft ²	Protein (%)	TWT (kg/hL)	Falling Number	Grade	
75 lbs	22 ^B	15.7	66	323	1	
95 lbs	25 ^B	15.6	67	299	1	
115 lbs	31 ^A	15.8	67	323	1	



Precipitation⁺ (mm)

	Мау	June	July	Aug	Cumulative
Rainfall	8	106	50	22	186
Normal	69	100	93	74	336
% Normal	12%	106%	53%	30%	55%

+Growing season precipitation (mm)

Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac ^{††}		
75 lbs	79.1	\$21.25/ac	+ \$5.67/ac		
95 lbs	77.6	\$26.92/ac	\$0/ac		
115 lbs	78.1	\$32.59/ac	- \$5.67/ac		
P-Value	0.2716		Economics: There is an increase in profit for the lower seeding rate due to		
cv	1.58%	the lower cost of seed/a	the lower cost of seed/acre.		
Significance	Νο				

*Based on MB Agriculture 2023 Cost of Production Guidelines (\$34.00/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.



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