



# Wheat Seeding Rate

**Trial ID: 2023-WP05 — R.M. of Springfield**

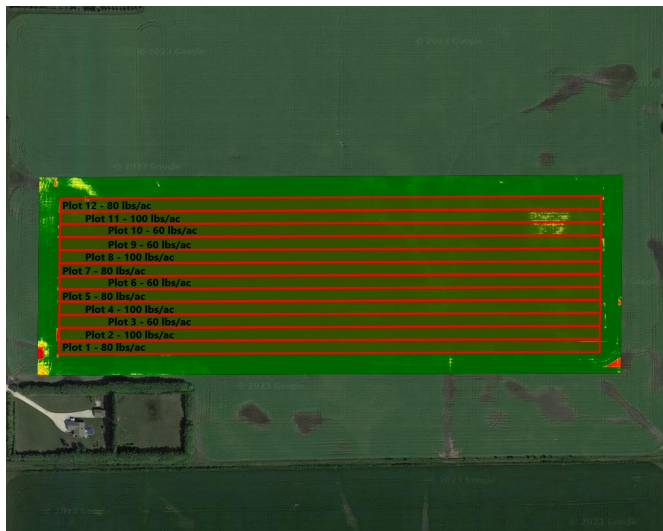
**Objective:** The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal seeding rate in wheat.

**Summary:** There was no significant yield difference between seeding rates of 60, 80 and 100 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	60 lbs vs. 80 lbs vs. 100 lbs
Soil Texture	Clay
Previous Crop	Canola
Tillage	Conventional Tillage
Seeding Equipment	50' Disc Drill
Seeding Date	May 13
Variety	AAC Viewfield
Germination	97%
Row Spacing	7.5"
Harvest Date	August 28

## NDVI Imagery July 18



## Wheat Response

	Plants/ft <sup>2</sup>	Protein (%)	TWT (kg/hL)	Falling Number	Grade
60 lbs	13 <sup>B</sup>	13.1	64	304	2
80 lbs	16 <sup>A</sup>	13.5	64	300	2
100 lbs	18 <sup>A</sup>	12.7	64	310	2

## Precipitation<sup>†</sup> (mm)

	May	June	July	Aug	Cumulative
Rainfall	15	88	46	56	83
Normal	83	107	98	83	371
% Normal	18%	82%	46%	68%	55%

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

## Overall Yield & Economics

	Mean (bu/ac)	Cost <sup>†</sup>	Change in Profit/ac <sup>††</sup>
60 lbs	83.0	\$17.00/ac	+ \$5.67/ac
80 lbs	83.2	\$22.67/ac	\$0/ac
100 lbs	82.8	\$28.34/ac	- \$5.67/ac
P-Value	0.6869	<b>Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.</b>	
CV	0.76%		
Significance	No		

<sup>†</sup>Based on MB Agriculture 2023 Cost of Production Guidelines (\$34.00/ac)

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



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