

## **Wheat Seeding Rate**

## Trial ID: 2022-WP03 — R.M. of Grey

**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 90, 135 and 180 lbs/ac. As a result, there was a decrease in profit equivalent to the increase in seed cost for the higher seeding rates.

Treatment	90 lbs vs. 135 lbs vs. 180 lbs
Soil Texture	Clay
Previous Crop	Soybeans
Tillage	Zero Till
Seeding Equipment	57' Air Drill
Seeding Date	May 24
Variety	AC Cardale
Germination	99%
Row Spacing	10″
Harvest Date	September 03

ND	vi imagery July 24	
	12 - 180 lbs	
6-14	11 - 135 lbs	
	10 - 90 lbs	
The second second	9 - 90 lbs	
1	8 - 180 lbs	
for the contract of the contra	7 - 135 lbs	
6 6	6 - 90 lbs	
the second second	5 - 135 lbs	
	4 - 180 lbs	
	3 - 90 lbs	-
	2 - 180 lbs	
	1 - 135 lbs	
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Wheat Response					
	Plants/ft <sup>2</sup>	Protein (%)	TWT (kg/hL)	Falling Number	Grade
90 lbs	30 <sup>B</sup>	13.9	79	362	1.0
135 lbs	33 <sup>AB</sup>	14.5	79	358	1.0
180 lbs	38 <sup>A</sup>	14.3	79	367	1.0

	Pı	recipitati			
	May	June	July	Aug	Total
Rainfall	85	58	61	66	270
Normal	53	74	60	48	235
% Normal	162%	79%	100%	136%	115%

<sup>+</sup>Growing season precipitation (mm) - May 01—Aug 15

## **Overall Yield & Economics**

	Mean (bu/ac)	Cost⁺	Change in Profit/ac <sup>††</sup>	
90 lbs	59.0	\$24/ac	+\$13/ac	
135 lbs	58.0	\$37/ac	\$0/ac	
180 lbs	57.0	\$49/ac	-\$12/ac	
P-Value	0.6912	Economics: There is an i	Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.	
cv	5.48%	the lower cost of seed/a		
Significance	No			

\*Based on MB Agriculture 2022 Cost of Production Guidelines (\$32.50/ac)

**†**Change in profit is calculated as the difference in cost between seeding rate treatments.





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