



## Wheat Seeding Rate

**Trial ID: 2022-WP02 — R.M. of De Salaberry**

**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 planting rates of 120, 138 and 156 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	120 lbs vs. 138 lbs vs. 156 lbs
Soil Texture	Clay Loams
Previous Crop	Sunflower
Tillage	Conventional
Seeding Equipment	30' Hoe Drill
Seeding Date	May 17
Variety	AAC Starbuck VB
Germination	98%
Row Spacing	7.5"
Harvest Date	September 03

### RGB Imagery July 24



### Wheat Response

	Plants/ft <sup>2</sup>	Protein (%)	TWT (kg/hL)	Falling Number	Grade
120 lbs	16	15.6	82	335	1.0
138 lbs	16	—	—	—	—
156 lbs	17	—	—	—	—

### Precipitation<sup>†</sup> (mm)

	May	June	July	Aug	Total
Rainfall	77	68	89	123	357
Normal	52	86	63	41	242
% Normal	149%	79%	141%	303%	148%

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

### Overall Yield & Economics

	Mean (bu/ac)	Cost <sup>†</sup>	Change in Profit/ac <sup>††</sup>
120 lbs	68.1	\$33/ac	+\$4/ac
138 lbs	70.6	\$37/ac	\$0/ac
156 lbs	71.5	\$42/ac	-\$5/ac
P-Value	0.4648	<b>Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.</b>	
CV	5.42%		
Significance	No		

<sup>†</sup>Based on MB Agriculture 2022 Cost of Production Guidelines (\$32.50/ac)

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



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