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# Soybean Seeding Rate Trial

**Trial ID:** 2024-SSR09 – R.M. of Dauphin

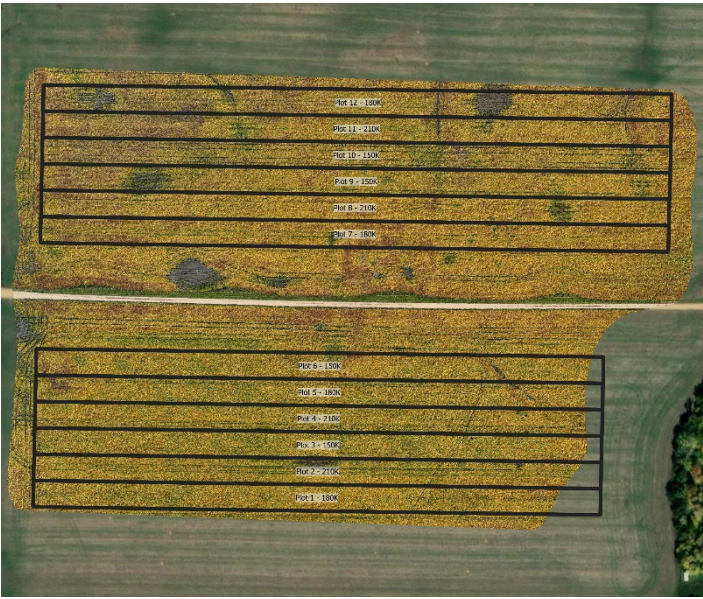
**Objective:** Quantify the agronomic and economic impacts of different soybean seeding rates.

**Summary:** There were no significant yield differences among seeding rates of 150,000, 180,000 and 210,000 seeds/ac. As a result, there was a decrease in profit equivalent to the increase in seed cost for the higher seeding rates.

## Trial Information

<b>Treatment</b>	150k vs 180k vs 210k
<b>Soil Texture</b>	Clay
<b>Previous Crop</b>	Wheat
<b>Tillage</b>	Harrow
<b>Seeding Equipment</b>	60ft Hoe Drill
<b>Seeding Date</b>	May 31
<b>Variety</b>	Renolds
<b>Germination</b>	96%
<b>Row Spacing</b>	10"
<b>Harvest Date</b>	October 6

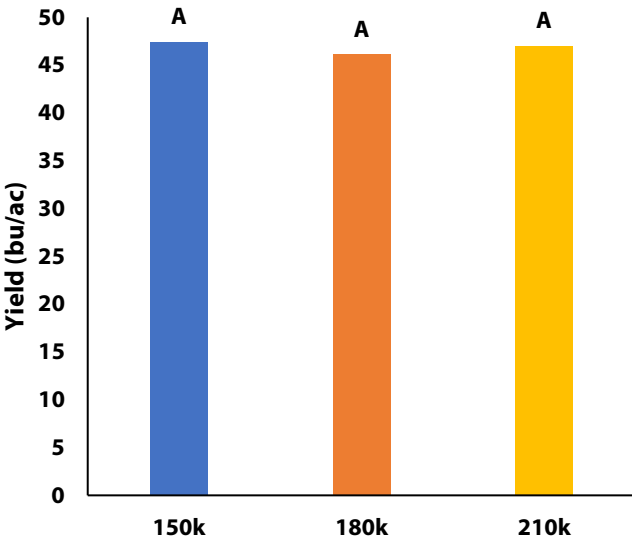
## Trial Image September 26



## Precipitation (mm)

	May	June	July	Aug	Total
<b>Rainfall</b>	106	114.3	57.5	76.3	354.1
<b>Normal</b>	54.3	86.7	73.2	63.3	277.5
<b>% Norm</b>	195%	132%	79%	121%	128%

## Yield by Treatment



## Plant Stand (plants/ac) †

	V4	R7
<b>150k</b>	161,000 B	162,000 B
<b>180k</b>	177,000 B	175,000 B
<b>210k</b>	219,000 A	216,000 A

† Averages followed by different letters in the column are significantly different at  $p=0.05$ .

## Plant Establishment and Survivability †

	Establishment at V4	Survivability to R7	Change V4 to R7
<b>150k</b>	107%	108%	1%
<b>180k</b>	99%	97%	-1%
<b>210k</b>	104%	103%	-1%

† % establishment = plant count at V stages/seeding rate; % survivability = plant count at R stages/seeding rate



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### Overall Yield & Economics

	Mean (bu/ac)	Cost <sup>†</sup>	Change in Profit <sup>††</sup>
<b>150k</b>	47.4	\$67/ac	
<b>180k</b>	46.1	\$80/ac	-\$13/ac
<b>210k</b>	47.0	\$94/ac	-\$27/ac

<b>P-Value</b>	0.787	<b>Economic</b>	150k → 180k <b>No</b>
<b>CV</b>	5.6%		150k → 210k <b>No</b>
<b>Significance</b>	<b>No</b>		180k → 210k <b>No</b>

<sup>†</sup> Based on a \$62.94/unit soybean seed costs (Source: Manitoba Agriculture 2024 Cost of Production Guidelines)

<sup>††</sup> Change in profit is calculated as the difference in cost between seeding rate treatments. Because yields were not significantly different, there is no increased income to offset the increase in seed cost