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## Soybean Seeding Rate Trial

**Trial ID:** 2022-SSR02 – R.M. of North Norfolk

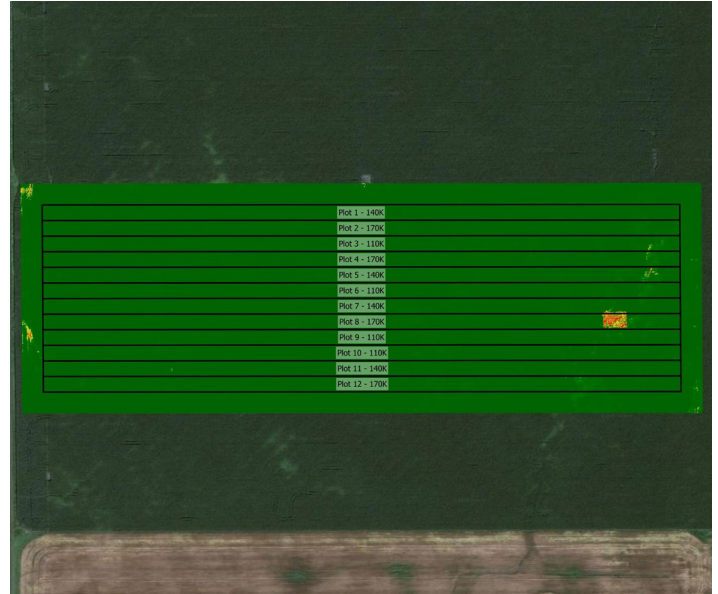
**Objective:** Quantify the agronomic and economic impacts of different soybean seeding rates.

**Summary:** There was no significant yield difference between seeding rates of 110,000, 140,000 and 170,000 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>	110k vs 140k vs 170k
<b>Soil Texture</b>	Fine Sandy Loam
<b>Previous Crop</b>	Canola
<b>Tillage</b>	Conventional
<b>Seeding Equipment</b>	60 ft Planter
<b>Seeding Date</b>	May 25
<b>Variety</b>	DKB003-29
<b>Germination</b>	88%
<b>Row Spacing</b>	30"
<b>Harvest Date</b>	October 6

### NDVI Field Image August 14



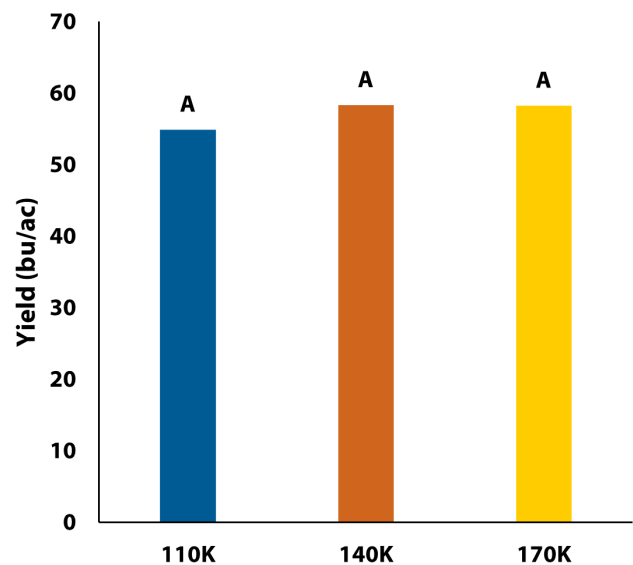
### Precipitation (mm)

	May	Jun	Jul	Aug	Total
<b>Rainfall</b>	140.4	139.2	71.5	97.2	448.3
<b>Normal</b>	49.8	79.4	71.1	69.3	269.6
<b>% Normal</b>	282%	175%	101%	140%	166%

### Plant Stand (plants/ac)

	VC	R8
<b>110k</b>	79,000	81,000
<b>140k</b>	105,000	103,000
<b>170k</b>	125,000	126,000

### Yield by Treatment





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### Overall Yield & Economics

	Mean (bu/ac)	Cost <sup>†</sup>	Change in Profit/ac <sup>††</sup>
<b>110k</b>	54.9	\$53/ac	
<b>140k</b>	58.3	\$68/ac	-\$15/ac
<b>170k</b>	58.2	\$82/ac	-\$29/ac
<b>P-Value</b>	0.0905	<b>Economic</b>	110K to 140K → <b>No</b>
<b>CV</b>	4.4%		110K to 170K → <b>No</b>
<b>Significance</b>	<b>No</b>		140K to 170K → <b>No</b>

<sup>†</sup> Based on Manitoba Agriculture's 2022 *Cost of Production Guidelines* (\$67.90/unit); does not include application cost.

<sup>††</sup> Yields were not significantly different, therefore profit/ac decreased by the cost/ac of increasing seeding rate.