



**on-farm network**  
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## Soybean Seeding Rate Trial

**Trial ID:** 2022-SSR05 – R.M. of Tache

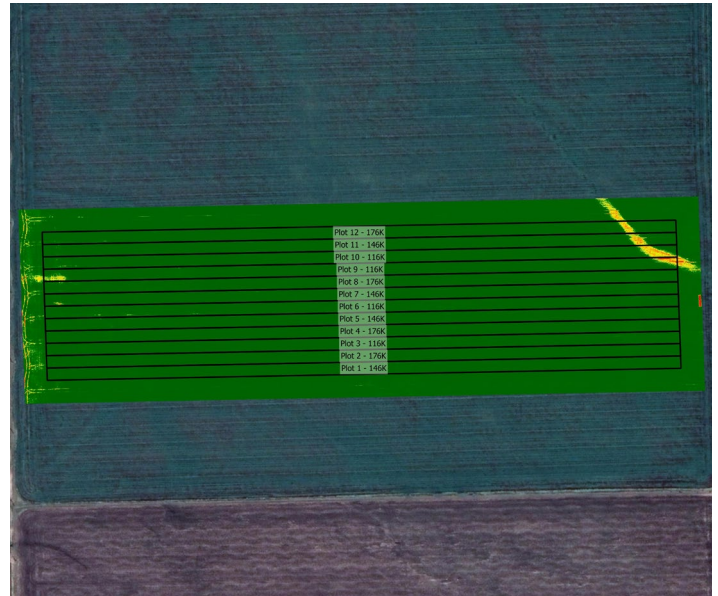
**Objective:** Quantify the agronomic and economic impacts of different soybean seeding rates.

**Summary:** There was no significant yield difference between seeding rates of 116,000, 146,000 and 176,000 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>	116k vs 146k vs 176k
<b>Soil Texture</b>	Clay
<b>Previous Crop</b>	Oats
<b>Tillage</b>	Conventional
<b>Seeding Equipment</b>	44 ft Planter
<b>Seeding Date</b>	May 27
<b>Variety</b>	NSC Richer RR2Y
<b>Germination</b>	89%
<b>Row Spacing</b>	22"
<b>Harvest Date</b>	October 21

### NDVI Field Image August 12



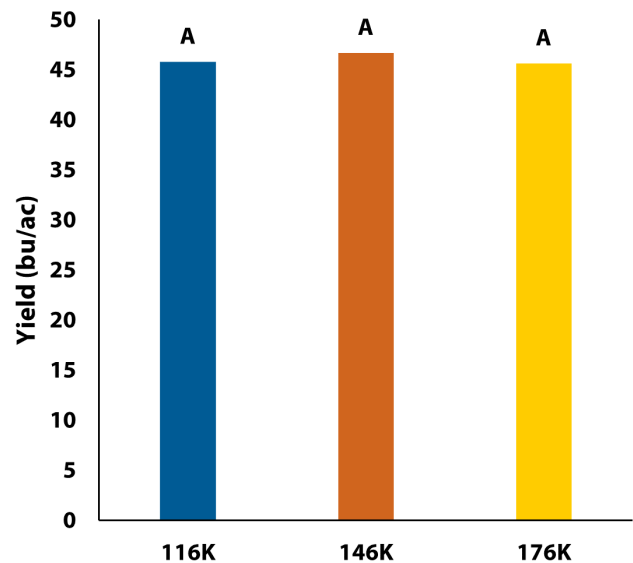
### Precipitation (mm)

	May	Jun	Jul	Aug	Total
<b>Rainfall</b>	109.1	89.6	129.4	71.2	399.3
<b>Normal</b>	58.1	91.3	80.1	66.1	295.6
<b>% Normal</b>	188%	98%	162%	108%	135%

### Plant Stand (plants/ac)

	V1	R4
<b>116k</b>	116,000	115,000
<b>146k</b>	137,000	139,000
<b>176k</b>	168,000	164,000

### Yield by Treatment





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### Overall Yield & Economics

	Mean (bu/ac)	Cost <sup>†</sup>	Change in Profit/ac <sup>††</sup>
<b>116k</b>	45.8	\$56/ac	
<b>146k</b>	46.7	\$71/ac	-\$15/ac
<b>176k</b>	45.6	\$85/ac	-\$29/ac
<b>P-Value</b>	0.4549	<b>Economic</b>	116K to 146K → <b>No</b>
<b>CV</b>	2.7%		116K to 176K → <b>No</b>
<b>Significance</b>	<b>No</b>		146K to 176K → <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.