



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

**Trial ID:** 2022-SSR03 – R.M. of Portage la Prairie

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

**Summary:** There was no significant yield difference between seeding rates of 123,000, 153,000 and 183,000 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>	123k vs 153k vs 183k
<b>Soil Texture</b>	Clay
<b>Previous Crop</b>	Canola
<b>Tillage</b>	Conventional
<b>Seeding Equipment</b>	40 ft Planter
<b>Seeding Date</b>	May 27
<b>Variety</b>	S007-A2XS
<b>Germination</b>	88%
<b>Row Spacing</b>	15"
<b>Harvest Date</b>	October 5

### NDVI Field Image August 13



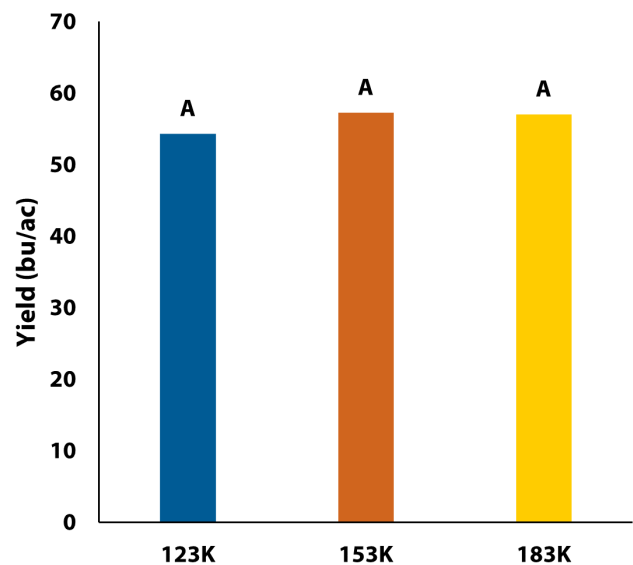
### Precipitation (mm)

	May	Jun	Jul	Aug	Total
<b>Rainfall</b>	133.6	51.5	91.7	74.2	351
<b>Normal</b>	49.8	79.4	71.1	69.3	269.6
<b>% Normal</b>	268%	65%	129%	107%	130%

### Plant Stand (plants/ac)

	VC	R8
<b>123k</b>	105,000	102,000
<b>153k</b>	130,000	125,000
<b>183k</b>	147,000	141,000

### Yield by Treatment





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### Overall Yield & Economics

	Mean (bu/ac)	Cost <sup>†</sup>	Change in Profit/ac <sup>††</sup>
<b>123k</b>	54.3	\$60/ac	
<b>153k</b>	57.2	\$74/ac	-\$15/ac
<b>183k</b>	57	\$89/ac	-\$29/ac
<b>P-Value</b>	0.3294	<b>Economic</b>	123K to 153K → <b>No</b>
<b>CV</b>	6.2%		123K to 183K → <b>No</b>
<b>Significance</b>	<b>No</b>		153K to 183K → <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.