

# **Soybean Seeding Rate Trial**

Trial ID: 2022-SSR01 - R.M. of St. Clements

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

**Summary:** There was no significant yield difference between seeding rates of 120,000, 150,000 and 180,000 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**

Treatment	120k vs 150k vs 180k	
Soil Texture	Clay	
Previous Crop	Winter Wheat	
Tillage	Conventional	
Seeding Equipment	40 ft Planter	
Seeding Date	May 16	
Variety	S007-Y4	
Germination	90%	
Row Spacing	15"	
Harvest Date	October 04	

### **Precipitation (mm)**

	May	Jun	Jul	Aug	Total
Rainfall	100.2	75.3	123.9	53.1	352.5
Normal	54	89.9	73.4	72.6	289.9
% Normal	186%	84%	169%	73%	122%

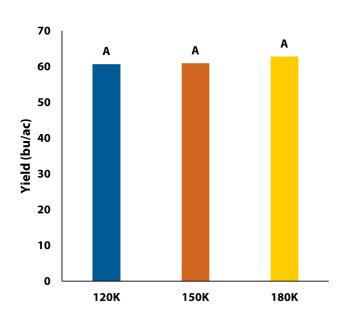
# Plant Stand (plants/ac)

	VC	R6	
120k	102,000	111,000	
150k	132,000	129,000	
180k	142,000	132,000	

## **NDVI Field Image August 12**



## **Yield by Treatment**





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Overall Yie	eld & Economics
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	Mean (bu/ac)	Cost <sup>+</sup>	Change in Profit/ac++
120k	60.7	\$58/ac	
150k	60.9	\$73/ac	-\$15/ac
180k	62.8	\$87/ac	-\$29/ac
P-Value	0.4027	Economic	120K to 150K <b>→ No</b>
CV	3.8%		120K to 180K <b>→ No</b>
Significance	No		150K to 180K <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.