

Soybean Seeding Rate Trial

Trial ID: 2022-SSR04 – R.M. of Wallace-Woodworth

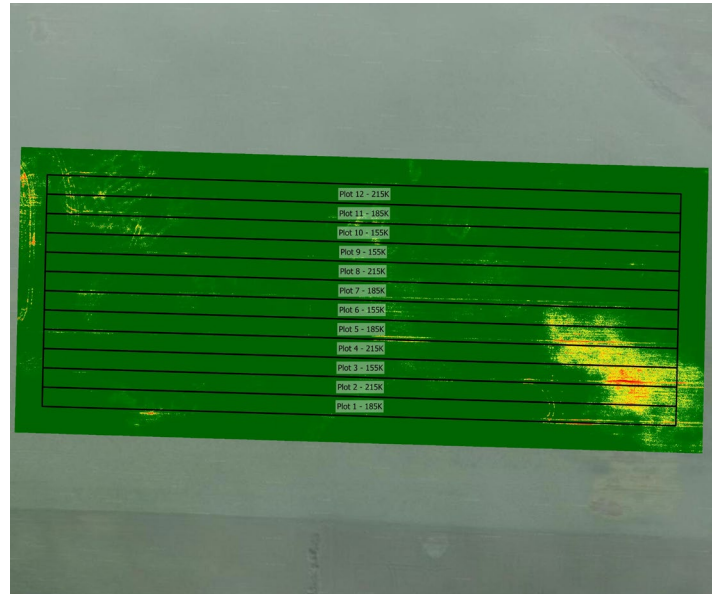
Objective: Quantify the agronomic and economic impacts of different soybean seeding rates.

Summary: There was no significant yield difference between seeding rates of 155,000, 185,000 and 215,000 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	155k vs 185k vs 215k
Soil Texture	Clay Loam
Previous Crop	Canola
Tillage	Zero Till
Seeding Equipment	60 ft Air Drill
Seeding Date	May 27
Variety	P006A37X
Germination	88%
Row Spacing	12"
Harvest Date	September 30

NDVI Field Image August 15



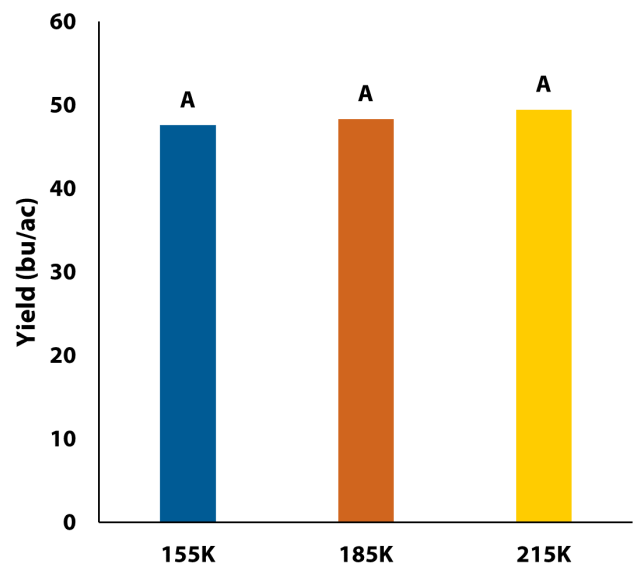
Precipitation (mm)

	May	Jun	Jul	Aug	Total
Rainfall	113.3	92	62.9	41.7	309.9
Normal	40.7	78.7	58.5	52.9	230.8
% Normal	278%	117%	108%	79%	134%

Plant Stand (plants/ac)

	V2	R8
155k	120,000	113,000
185k	150,000	136,000
215k	158,000	138,000

Yield by Treatment





on-farm network
PARTICIPATORY • PRECISE • PROACTIVE

Soybean Seeding Rate Trial

Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac ^{††}
155k	47.6	\$75/ac	
185k	48.3	\$90/ac	-\$15/ac
215k	49.4	\$104/ac	-\$29/ac
P-Value	0.695	Economic	155K to 185K → No
CV	5.9%		155K to 215K → No
Significance	No		185K to 215K → No

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

^{††} Yields were not significantly different, therefore profit/ac decreased by the cost/ac of increasing seeding rate.