Soybean Seeding Rate Trial

Trial ID: 2021-SSR08 – R.M. of Ste. Anne

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

Summary: There was no significant yield difference between seeding rates of 115,000, 145,000 and 175,000 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	115k vs. 145k vs. 175k
Soil Texture	Clay
Previous Crop	Corn
Tillage	Conventional
Seeding Equipment	44 ft Planter
Seeding Date	May 15
Variety	NSC Richer RR2Y
Germination	92%
Row Spacing	22"
Harvest Date	September 24

Precipitation (mm)

	May	Jun	Jul	Aug	Total
Rainfall	28.3	40.5	15.9	72.1	156.8
Normal	54	89.9	73.4	72.6	289.9
% Normal	52%	45%	22%	99%	54%

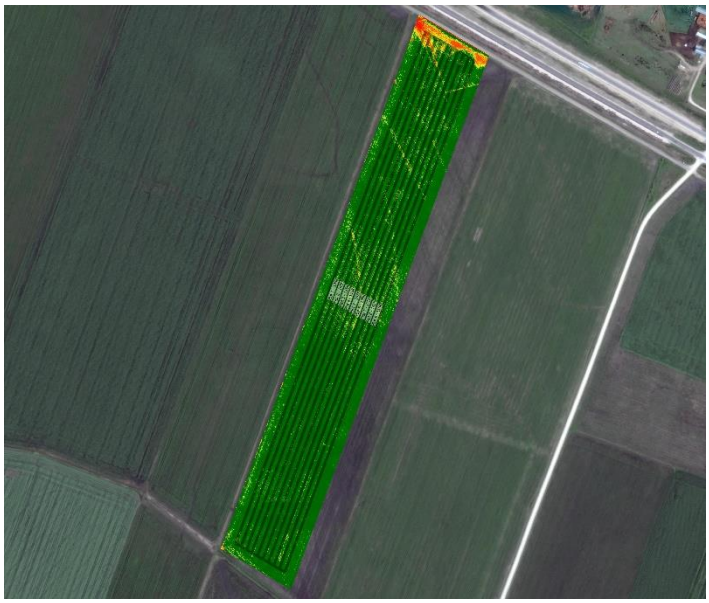
Plant Stand (plants/ac)

	V2	R6
115k	94,000	85,000
145k	122,000	109,000
175k	138,000	133,000

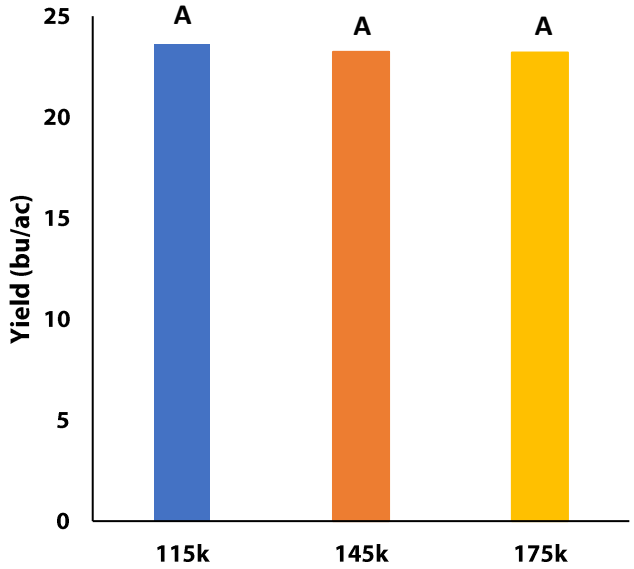
In-Season Observations August 4

Difference in branching between seeding rate treatments

NDVI Field Image August 13



Yield by Treatment



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Overall Yield & Economics

	Mean (bu/ac)	Cost†	Change in Profit/ac††
115k	23.6	$54/ac	
145k	23.2	$68/ac	-$14/ac
175k	23.2	$82/ac	-$28/ac
P-Value	0.8663	**Economic**	115k → 145k No
CV	4.1%		115k → 175k No
Significance	**No**		145k → 175k No

† Based on MB Agriculture 2021 Cost of Production Guidelines ($65.30/unit)

†† Change in profit is calculated as the difference in cost between seeding rate treatments. Because yields were not significantly different, there is no increased income to offset the increase in seed cost

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