Soybean Seeding Rate Trial

Trial ID: 2020-SP01 – R.M. of Dauphin

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

Summary: There was no significant yield difference between seeding rates of 125,000, 155,000 and 185,000 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	125k vs 155k vs 185k
Soil Texture	Clay
Previous Crop	Wheat
Tillage	Zero Till
Seeding Equipment	54 ft Air Drill
Seeding Date	May 17
Variety	P001A48X
Row Spacing	10”
Harvest Date	September 22

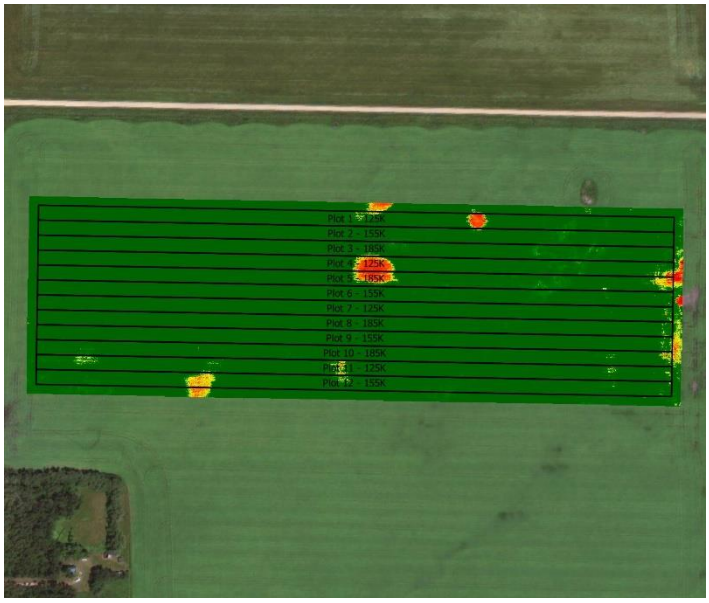
Precipitation (mm)

	May	June	July	August
Normal	54.3	86.7	73.2	63.3
Rainfall	31.8	101	67.9	98.4

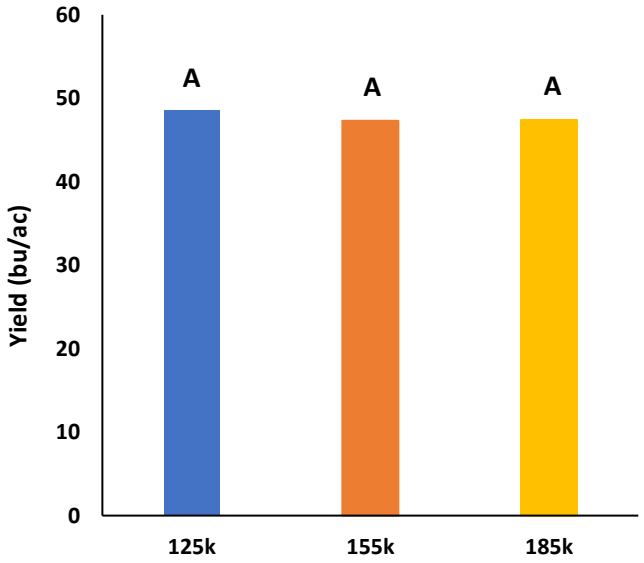
Plant Stand (plants/ac)

	V2	R7
125k	129 000	111 000
155k	134 000	140 000
185k	166 000	153 000

NDVI Field Image August 14



Yield by Treatment



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Overall Yield & Economics

	Mean (bu/ac)	Cost ǂ	Change in Profit/ac ǂ ǂ
125k	48.6	$59/ac	
155k	47.3	$73/ac	-$14/ac
185k	47.4	$88/ac	-$29/ac
P-Value	0.3019		
CV	4.4%		
Significance	**No**	**Economic**	125k → 155K No 125k → 185K No 155k → 185K No

ǂ Based on MB Agriculture 2020 Cost of Production Guidelines ($66.50/unit)

ǂ ǂ 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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