Soybean Seeding Rate Trial

Trial ID: 2020-SP11 – R.M. of Minitonas-Bowsman

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

Summary: There was no significant yield difference between seeding rates of 226,000, 196,000 and 166,000 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	166k vs 196k vs 226k
Soil Texture	Clay
Previous Crop	Canola
Tillage	Conventional
Seeding Equipment	Air Drill
Seeding Date	May 19
Variety	S0009-M2
Row Spacing	10″
Harvest Date	October 2

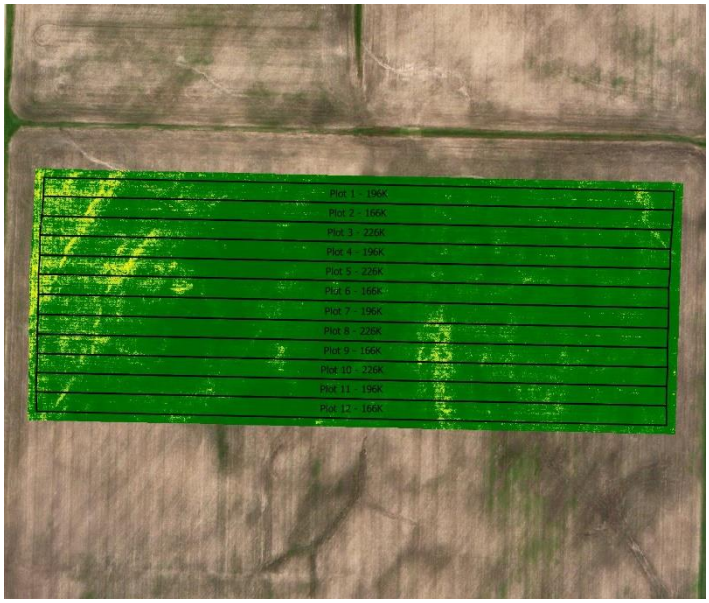
Precipitation (mm)

	May	June	July	August
Normal	45.4	84.2	85.6	68.3
Rainfall	12.1	62.9	122.8	43.4

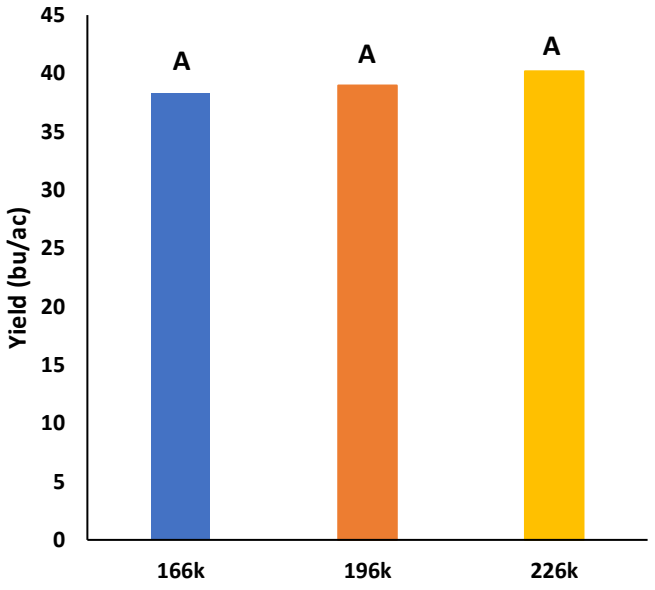
Plant Stand (plants/ac)

	V1
166k	123 000
196k	124 000
226k	161 000

NDVI Field Image August 26



Yield by Treatment



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Overall Yield & Economics

	Mean (bu/ac)	Cost ǂ	Change in Profit/ac ǂ ǂ
166k	38.3	$79/ac	
196k	39.0	$93/ac	-$14/ac
226k	40.2	$107/ac	-$28/ac
P-Value	0.1258		
CV	4.8%		
Significance	**No**	**Economic**	166k → 196k No 166k → 226k No 196k → 226k 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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