Soybean Seeding Speed Trial

Trial ID: 2025-SSS04 – R.M. of Lac du Bonnet

Objective: Quantify the agronomic and economic impacts of different seeding speeds on soybean production.

Summary: There was no significant yield difference between seeding speeds of 5 mph, 7 mph and 9mph. There was no significant difference in plant stand, plant spacing uniformity and seeding depth between seeding speeds.

Trial Information

Treatment	5 mph vs. 7 mph vs. 9 mph
Soil Texture	Clay
Previous Crop	Wheat
Tillage	Conventional Tillage
Seeding Equipment	HORSCH Avatar 60 MD – 60 ft Disc Seed Drill
Variety	Sevita 007XFN
Seeding Date	5/6/2025
Row Spacing	10 in.
Harvest Date	September 29, 2025

Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	11.8	35.9	75.1	68.5	191.3
Normal	71.82	97.18	84.26	75.74	329
% Norm	16%	37%	89%	90%	58%

Plant Stand (plants/ac) ǂ

	V2	R6
5 mph	121,000	112,875
7 mph	116,625	124,375
9 mph	118,375	122,125

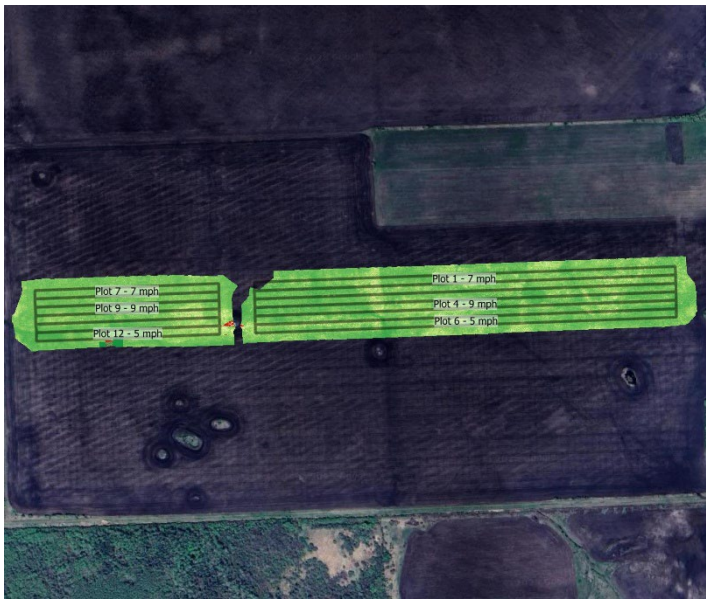
ǂ Columns followed by different letters are significantly different from one another

Plant Establishment and Survivability ǂ

	Establishment at V2	Survivability to R6	Change V2 to R6
5 mph	64%	59%	-5%
7 mph	61%	65%	4%
9 mph	62%	64%	2%

ǂ % establishment = plant count at V stages/seeding rate; % survivability = plant count at R stages/seeding rate

NDVI Field Image August 13



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Seeding Depth ǂ

	Average Seeding Depth (in.)
5 mph	1.37 A
7 mph	1.32 A
9 mph	1.36 A

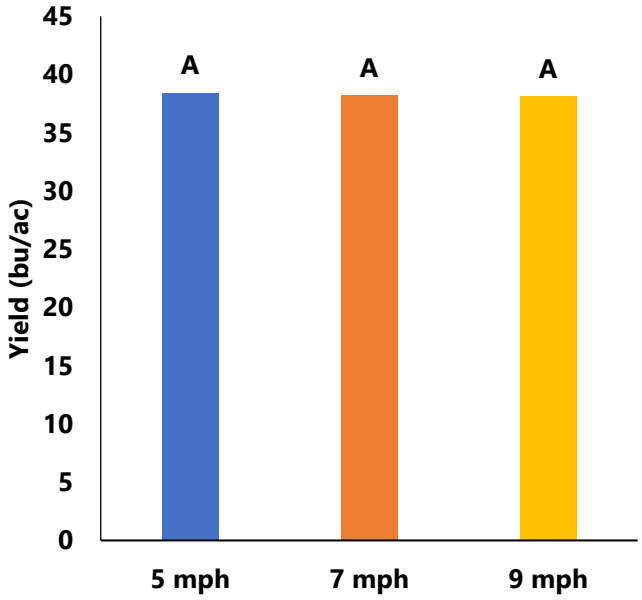
ǂ Seeding depths in columns followed by different letters are significantly different from one another

Uniformity ǂ

	Uniformity (in.)
5 mph	4.46 A
7 mph	5.55 A
9 mph	4.39 A

ǂ Uniformity in columns followed by different letters are significantly different from one another. Uniformity was calculated by taking the standard deviation of plant-to-plant spacing measured in inches during V-stages. A lower uniformity value indicates more evenly spaced plants compared to a higher value.

Yield by Treatment



Overall Yield & Economics

	Mean (bu/ac)	Change in Profit ǂǂ
5 mph	38.5	n/a
7 mph	38.2	n/a
9 mph	38.1	n/a
P-Value	0.979	
CV	6.10%	
Significance	**No**	**Economic N/A**

ǂ The economics of changing seeding speed are not calculated since factors like seeding time per acre and fuel consumption were not assessed.

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