Soybean Seeding Speed Trial

Trial ID: 2025-SSS09 – R.M. of Louise

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. 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
Soil Texture	Loamy Clay Loam
Previous Crop	Wheat
Tillage	Conventional Tillage
Seeding Equipment	42 ft Disc Drill
Seeding Date	5/11/2025
Variety	P007A68E
Germination	188500
Seeding Rate	7.5 in.
Harvest Date	10/1/2025

Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	39.5	26.3	88.7	44.7	199.2
Normal	70.92	89.47	78.51	58.55	297.45
% Norm	56%	29%	113%	76%	67%

Plant Stand (plants/ac) ǂ

	V3	R6
5 mph	107,750 A	102,875 A
7 mph	111,000 A	113,125 A

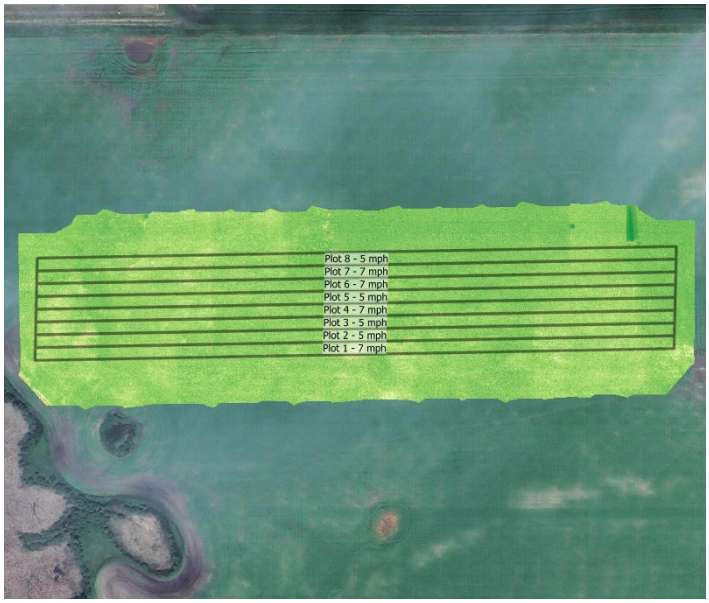
ǂ Columns followed by different letters are significantly different from one another

Plant Establishment and Survivability ǂ

	Establishment at V2	Survivability to R6	Change V2 to R6
5 mph	60%	57%	-3%
7 mph	62%	63%	1%

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

NDVI Field Image August 12



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Seeding Depth ǂ

	Average Seeding Depth (in.)
5 mph	0.98 A
7 mph	0.90 A

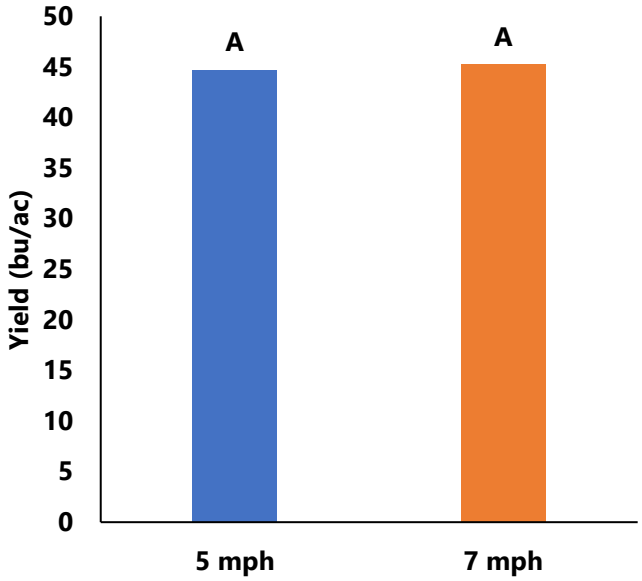
ǂ Seeding depths in columns followed by different letters are significantly different from one another

Plant Spacing Uniformity ǂ

	Plant Spacing Uniformity (in.)
5 mph	9.14 A
7 mph	8.27 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.

Yield by Treatment



Overall Yield & Economics

	Mean (bu/ac)	Change in Profit ǂ
5 mph	44.7	n/a
7 mph	45.2	n/a
Yield Difference	0.5	
P-Value	0.6517	
CV	3.30%	
Significance	**No**	**Economic N/A**

ǂThe 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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