

# Soybean Seeding Speed Trial

**Trial ID:** 2025-SSS08 – R.M. of Morris

**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 9 mph. There were significantly fewer plants/ac at both R1 and R6 in the 9 mph speed compared to the 5 mph and 7 mph speeds. There was no significant difference in plant spacing uniformity and seeding depth between seeding speeds.

## Trial Information

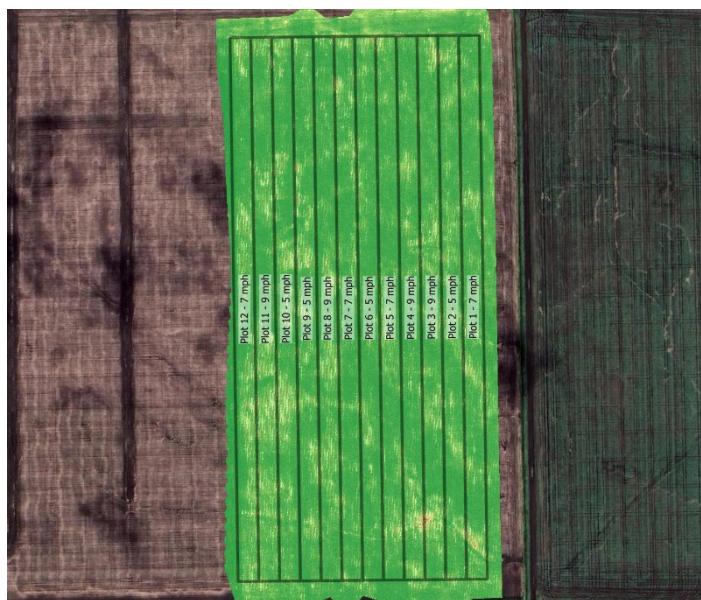
<b>Treatment</b>	5 mph vs. 7 mph vs. 9 mph
<b>Soil Texture</b>	Clay
<b>Previous Crop</b>	Millet
<b>Tillage</b>	Conventional Tillage
<b>Seeding Equipment</b>	90 ft Planter
<b>Seeding Date</b>	5/8/2025
<b>Variety</b>	DKB006-80
<b>Seeding Rate</b>	145,000 seeds/ac
<b>Row Spacing</b>	30 in.
<b>Harvest Date</b>	9/27/2025

## Plant Establishment and Survivability †

	<b>Establishment at R1</b>	<b>Survivability to R6</b>	<b>Change R1 to R6</b>
<b>5 mph</b>	88%	86%	-2%
<b>7 mph</b>	89%	88%	-1%
<b>9 mph</b>	81%	79%	-3%

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

## NDVI Field Image August 15



## Precipitation (mm)

	<b>May</b>	<b>June</b>	<b>July</b>	<b>Aug</b>	<b>Total</b>
<b>Rainfall</b>	52	34.6	60.4	58.1	205.1
<b>Normal</b>	74.86	96.12	87.95	80.44	339.37
<b>% Norm</b>	69%	36%	69%	72%	60%

## Plant Stand (plants/ac) †

	<b>R1</b>	<b>R6</b>
<b>5 mph</b>	128,250 A	125,250 A
<b>7 mph</b>	128,875 A	127,375 A
<b>9 mph</b>	117,125 B	115,000 B

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

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### Seeding Depth †

	Average Seeding Depth (in.)
5 mph	1.64 A
7 mph	1.56 A
9 mph	1.44 A

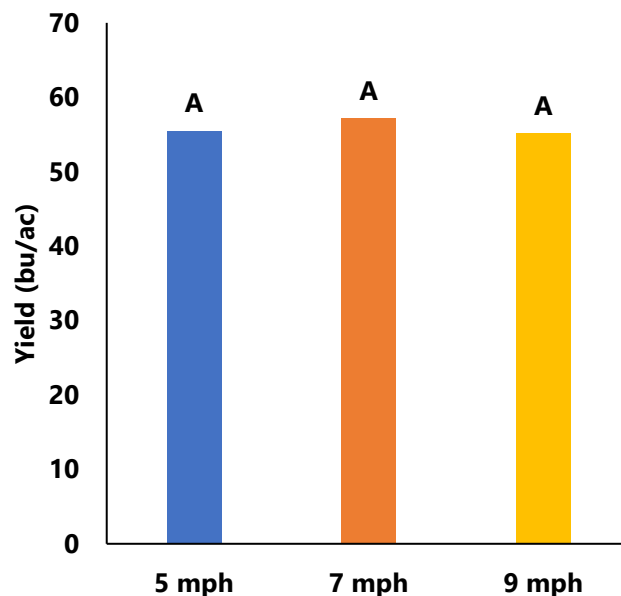
† Seeding depths in columns followed by different letters are significantly different from one another

### Plant Spacing Uniformity †

	Plant Spacing Uniformity (in.)
5 mph	1.05 A
7 mph	1.03 A
9 mph	1.15 A

† 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 †
5 mph	55.5	n/a
7 mph	57.2	n/a
9 mph	55.2	n/a
P-Value	0.3177	
CV	3.40%	
Significance	No	Economic N/A

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