Soybean Seeding Speed Trial

Trial ID: 2025-SSS07 – R.M. of St. Clements

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 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	Planter
Seeding Date	5/5/2025
Variety	DKB006-80
Seeding Rate	150,000 seeds/ac
Row Spacing	20 in.
Harvest Date	9/27/2025

Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	15.2	54.1	48.7	69.9	187.9
Normal	65.02	89.83	77.24	74.64	306.73
% Norm	23%	60%	63%	94%	61%

Plant Stand (plants/ac) ǂ

	V2	R6
5 mph	127,375 A	130,125 A
7 mph	126,125 A	128,125 A
9 mph	129,250 A	127,125 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	85%	87%	2%
7 mph	84%	85%	1%
9 mph	86%	85%	-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	0.93 A
7 mph	0.93 A
9 mph	0.80 A

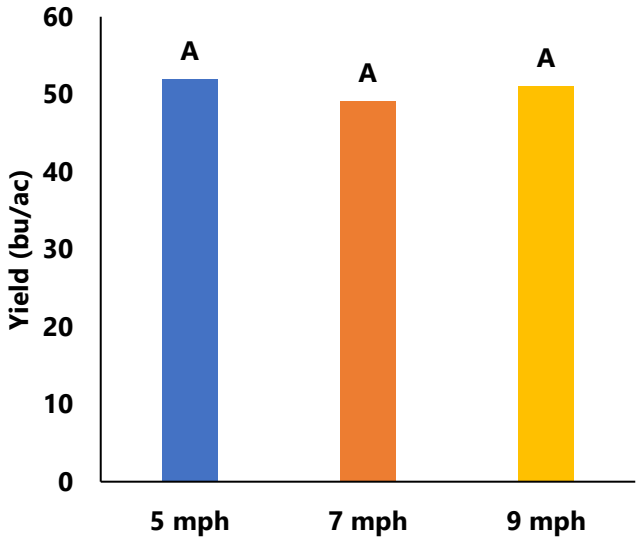
ǂ Seeding depths in columns followed by different letters are significantly different from one another

Plant Spacing Uniformity ǂ

	Uniformity (in.)
5 mph	1.42 A
7 mph	1.75 A
9 mph	1.94 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	52.0	n/a
7 mph	49.2	n/a
9 mph	51.1	n/a
P-Value	0.1347	
CV	4%	
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 fully assessed.

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