Soybean Seeding Speed Trial

Trial ID: 2025-SSS06 – R.M. of Rhineland

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. The 9 mph speed resulted in less uniform plant to plant spacing compared to the 5 mph and 7 mph speeds. There was no significant difference in plant stand and seeding depth between seeding speeds.

Trial Information

Treatment	5 mph vs. 7 mph vs. 9 mph
Soil Texture	Clay
Previous Crop	Canola
Seeding Equipment	60 ft Planter
Seeding Date	5/6/2025
Seeding Rate	160,000 seeds/ac
Row Spacing	15 in.
Harvest Date	9/30/2025

Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	52.8	31.3	113.3	42.1	239.5
Normal	71.22	98.68	70.86	65.57	306.33
% Norm	74%	32%	160%	64%	78%

Plant Stand (plants/ac) ǂ

	V3	R7
5 mph	144,750 A	133,750 A
7 mph	143,875 A	136,250 A
9 mph	137,625 A	127,000 A

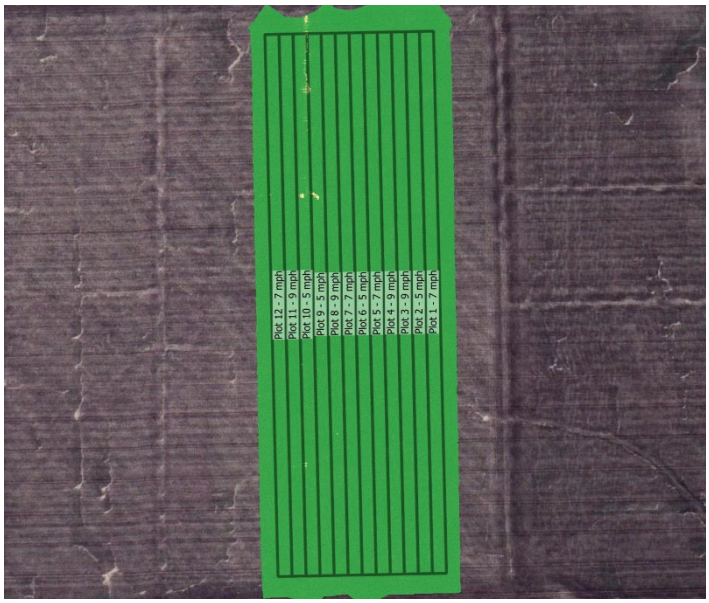
ǂ Columns followed by different letters are significantly different from one another

Plant Establishment and Survivability ǂ

	Establishment at V3	Survivability to R7	Change V3 to R7
5 mph	90%	84%	-7%
7 mph	90%	85%	-5%
9 mph	86%	79%	-7%

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	1.31 A
7 mph	1.25 A
9 mph	1.25 A

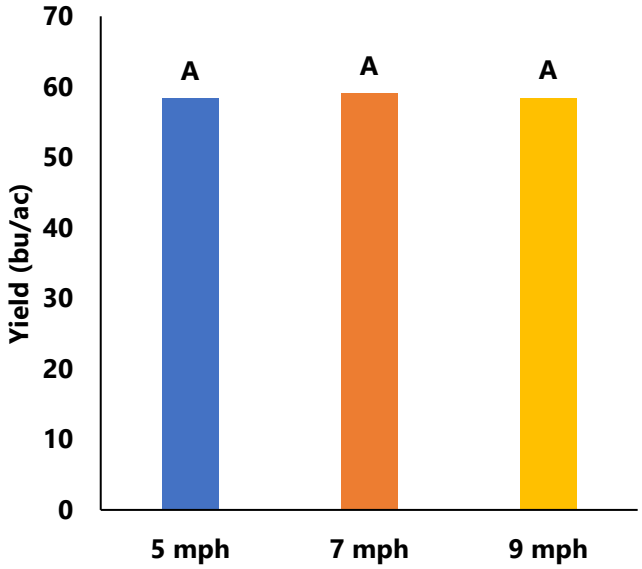
ǂ Seeding depths in columns followed by different letters are significantly different from one another

Plant Spacing Uniformity ǂ

	Uniformity (in.)
5 mph	2.05 B
7 mph	2.25 B
9 mph	2.61 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	58.4	n/a
7 mph	59.1	n/a
9 mph	58.4	n/a
P-Value	0.6362	
CV	1.80%	
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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