Soybean Seeding Speed Trial

Trial ID: 2025-SSS03 – R.M. of Ritchot

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	43 ft Disc Drill
Seeding Date	5/5/2025
Variety	TH81007 R2XN
Seeding Rate	175,000 seeds/ac
Row Spacing	10 in.
Harvest Date	9/30/2025

Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	27.5	59.9	32	50	169.4
Normal	74.95	94.78	86.21	82.37	338.31
% Norm	37%	63%	37%	61%	50%

Plant Stand (plants/ac) ǂ

	V2	R5
5 mph	110,750 A	111,000 A
7 mph	106,875 A	108,500 A
9 mph	108,375 A	107,000 A

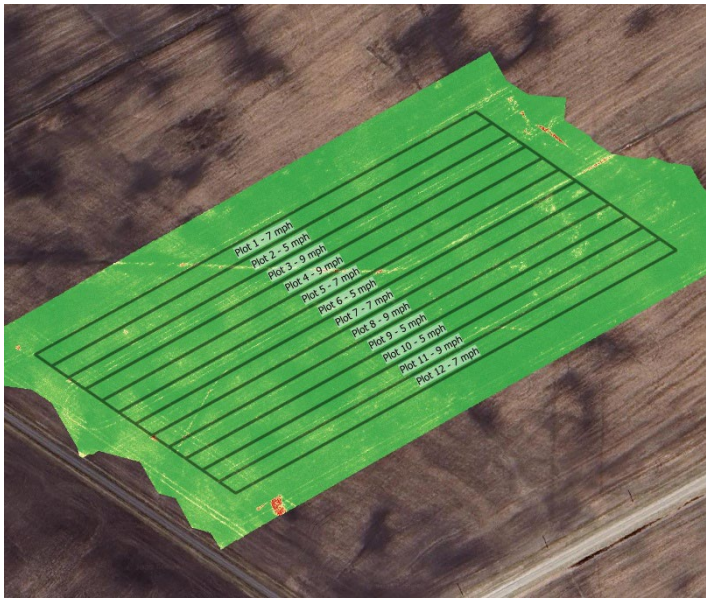
ǂ Columns followed by different letters are significantly different from one another

Plant Establishment and Survivability ǂ

	Establishment at V2	Survivability to R5	Change V2 to R5
5 mph	63%	63%	0%
7 mph	61%	62%	1%
9 mph	62%	61%	-1%

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

NDVI Field Image August 13



MANITOBA Pulse Soybean GROWERS
T 204 745.6488
www.manitobapulse.ca

Soybean Seeding Speed Trial

on-farm network
PARTICIPATORY • PRECISE • PROACTIVE

Seeding Depth ǂ

	Average Seeding Depth (in.)
5 mph	1.05 A
7 mph	0.98 A
9 mph	0.96 A

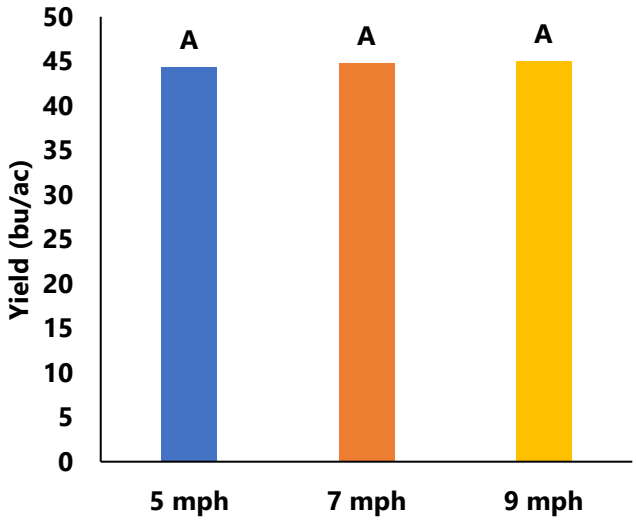
ǂ Seeding depths in columns followed by different letters are significantly different from one another

Plant Spacing Uniformity ǂ

	Uniformity (in.)
5 mph	6.67 A
7 mph	6.76 A
9 mph	5.66 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	44.3	n/a
7 mph	44.7	n/a
9 mph	45.0	n/a
P-Value	0.8368	
CV	3.10%	
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.

MANITOBA Pulse Soybean GROWERS
T 204 745.6488
www.manitobapulse.ca