

Soybean Row Spacing Trial

Trial ID: 2020_SRS05 – R.M. of Grassland

Objective: Quantify the agronomic and economic impacts of different row spacings on soybean production

Summary: There was no significant yield difference between 15" and 30" spacing. The 15" rows closed more rapidly than the 30" rows and there was more closure in the 15" rows at R1, R3 and R5 compared to the 30" rows.

Trial Information

Treatment	15" vs 30" Row Spacing
Soil Texture	Loam
Previous Crop	Corn
Tillage	Zero Till
Seeding Equipment	40 ft Planter
Seeding Date	May 29
Variety	LS Solaire
Seeding Rate	170 000 seeds/ac
Harvest Date	September 22

Precipitation (mm)

	May	June	July	August
Normal	46.9	83.7	65.2	57.6
Rainfall	18.1	75.7	55.1	22.7

Plant Stand (plants/ac)

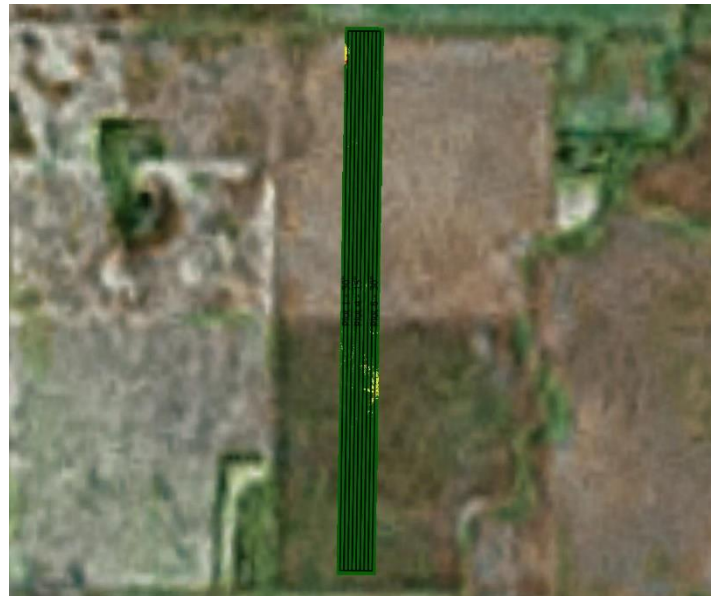
	V1	R8
15"	154,500	141,500
30"	145,000	135,500

% Canopy Closure †

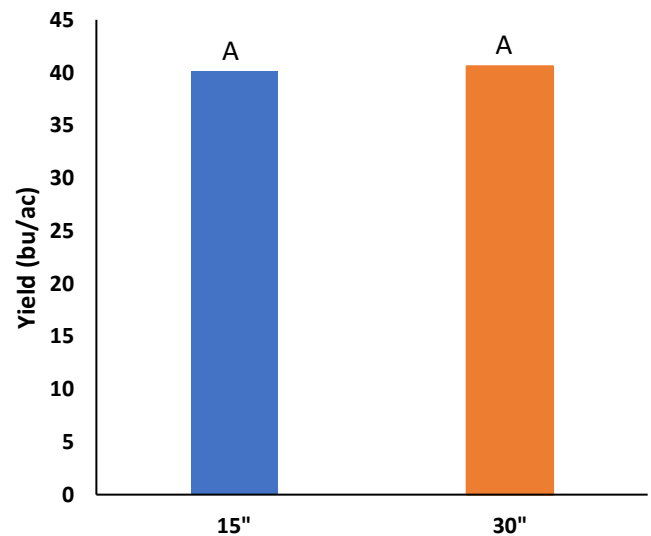
	R1	R3	R5
15"	77% A	91% A	91% A
30"	53% B	78% B	88% B

† Closure percentages in columns followed by different letters are significantly different from one another

NDVI Field Image August 21



Yield by Treatment





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Overall Yield & Economics

	Mean (bu/ac)	Change in Profit/ac (@ soybean price of \$10 - \$12/bu) †
15"	40.1	n/a
30"	40.6	n/a
Yield Difference	-0.5	
P-Value	0.4197	
CV	2.4%	
Significance	No	Economic No

† Does not account for any equipment/operating cost differences between spacings; no significant yield difference, so no change in profit with a change in row spacing