

Soybean Row Spacing Trial

Trial ID: 2021-SRS03 – R.M. of La Broquerie

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

Summary: There was no significant yield difference between soybeans at 15 and 30" spacing. The canopy in the 15" spacing treatment began to close earlier than the 30" spacing treatment. By the end of the season, agronomically, canopy closure was quite similar between row spacing treatments.

Trial Information

Treatment	15" vs. 30"
Soil Texture	Loamy Fine Sand
Previous Crop	Corn
Tillage	Conventional
Seeding Equipment	40 ft Planter
Seeding Date	May 13
Variety	TH 88007R2X
Seeding Rate	155 000 seeds/ac
Harvest Date	September 27

Precipitation (mm)

	May	Jun	Jul	Aug	Total
Rainfall	77.2	65	33	84.9	260.1
Normal	58.1	91.3	80.1	66.1	295.6
% Normal	133%	71%	41%	128%	88%

Plant Stand (plants/ac)

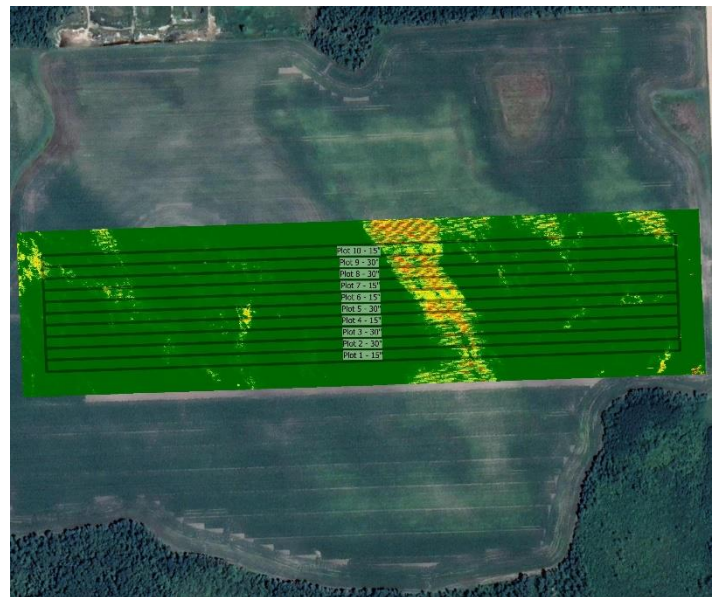
	V2	R6
15"	122,000	121,000
30"	128,000	120,000

% Canopy Closure†

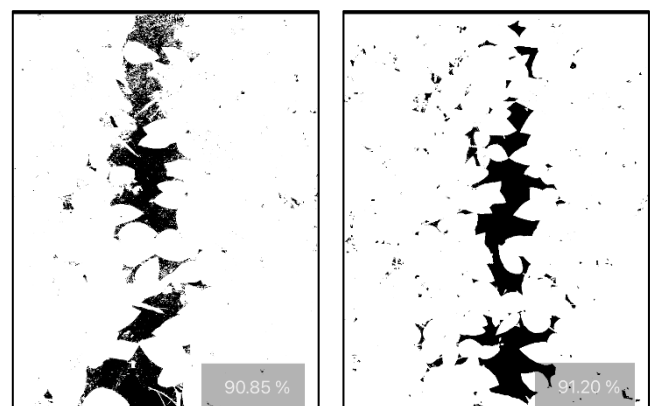
	R1	R3	R5
15"	62% A	80% A	88% B
30"	50% B	81% A	91% A

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

NDVI Field Image August 14



Canopy Closure Images



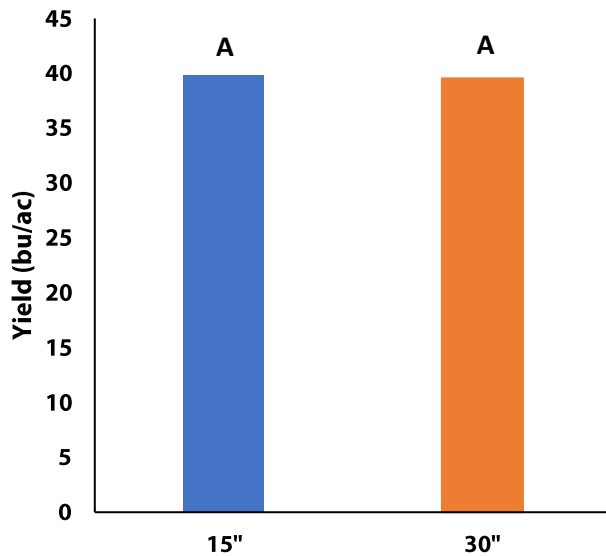
Canopeo app measurements, at R5, of 15" row spacing canopy closure (left) and 30" row spacing canopy closure (right).



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Yield by Treatment



Overall Yield & Economics

	Mean (bu/ac)	Change in Profit/ac [†]
15"	39.8	n/a
30"	39.5	n/a
Yield Difference	0.3	
P-Value	0.8893	
CV	8.3%	
Significance	No	Economic n/a

[†] Does not account for any equipment/operating cost differences between spacings

†