

Soybean Row Spacing Trial

Trial ID: 2025-SRS02 – R.M. of Portage la Prairie

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" row spacing. At R1, and R3 canopy closure in the 15" spacing was significantly greater than in the 30" spacing. At R5, canopy closure was agronomically similar between the two spacings. Weed pressure was assessed at R5 and was similar between the two spacings. Disease pressure was assessed at R6, and there were no significant differences between the two spacings.

Trial Information

Treatment	15" vs. 30" rows
Soil Texture	Clay
Previous Crop	Wheat
Tillage	Conventional Tillage
Seeding Equipment	60 ft Planter
Seeding Date	5/12/2025
Variety	DKB006-80
Germination	79%
Seeding Rate	150,000 seeds/ac
Harvest Date	10/2/2025

Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	37.7	40.3	12	139.4	229.4
Normal	66.85	84.65	68.52	65.46	285.48
% Norm	56%	48%	18%	213%	80%

Plant Stand (plants/ac) †

	V3	R5
15"	113,625	115,375
30"	113,625	113,500

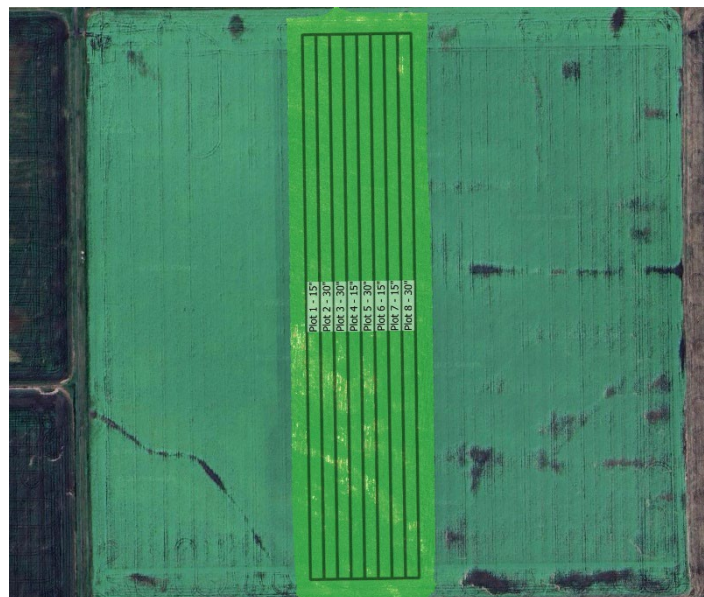
† Columns followed by different letters are significantly different from one another

% Canopy Closure †

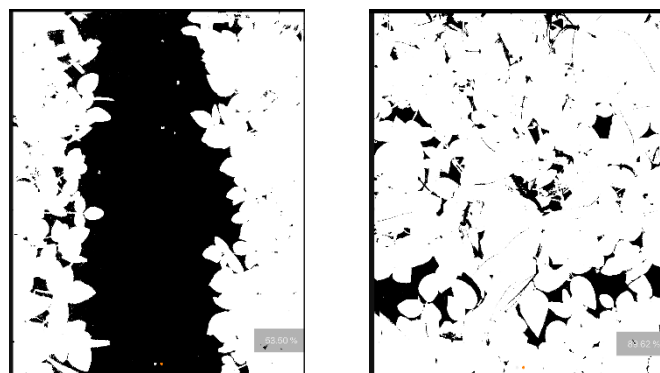
	R1	R3	R5
15"	58.1 A	91.9 A	96.9
30"	43.7 B	72.25 B	90.8

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

NDVI Field Image August 15



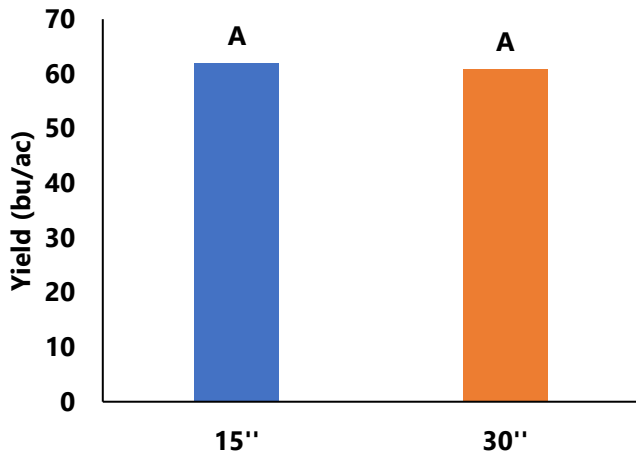
Canopy Closure Images



Canopeo app measurements of 15" row spacing (right) and 30" row spacing (left) canopy closure at R3.

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Yield by Treatment



Overall Yield & Economics[†]

	Mean (bu/ac)	Change in Profit/ac [†]
15"	61.9	n/a
30"	60.8	n/a
Yield Diff.	1.1	
P-Value	1.3%	
CV	0.0694	
Significance	No	Economic N/A

[†] Economics of how different row widths are achieved in the field are very farm and equipment specific. As a result, they are not estimated here.

Summary of Disease Rating (R5)[†]

	Incidence (% plants infected)				
	Septoria	Frog Eye	Downy Mildew	White Mould	Bacterial Blight
15"	58 (0.6)	43	60 (0.6)	33 (0.35)	35
30"	55 (0.7)	53	52 (0.55)	45 (0.45)	33

[†] Septoria brown spot, white mould, and downy mildew severity, listed in brackets, were rated on a 0-5 scale.

Late Season Weed Pressure (R5)[†]

	Average Number of Weeds/ft ²
15"	0.25
30"	2