Soybean Row Spacing Trial

Trial ID: 2020_SRS03 – R.M. of Rockwood

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

Summary: Yield significantly increased by 2.3 bu/ac with 15" row spacing compared to 30" spacing. Canopy closure was similar among spacings at R1, R3 and R5.

Trial Information

Treatment	15" vs 30"
Soil Texture	Silty Clay
Previous Crop	Corn
Tillage	Zero Till
Seeding Equipment	40 ft Planter
Seeding Date	May 28
Variety	Akras R2
Seeding Rate	162 000 seeds/ac
Harvest Date	September 29

Precipitation (mm)

	May	June	July	August
Normal	53.8	92	66.4	63.3
Rainfall	11.4	60.4	40.5	79.5

Plant Stand (plants/ac)

	V2	R7
15"	160,500	156,500
30"	145,000	131,500

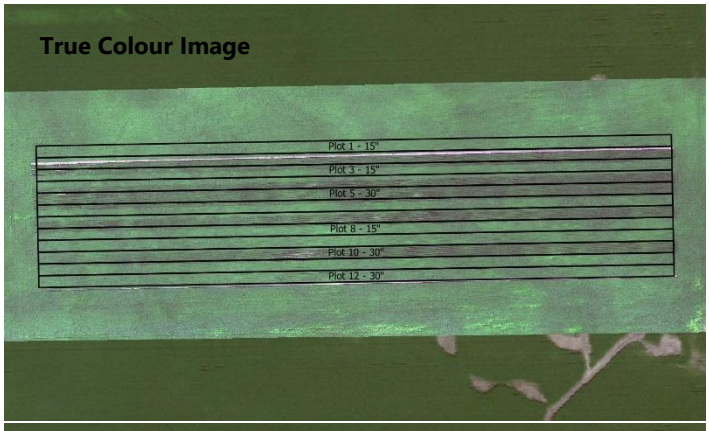
% Canopy Closure[ǂ]

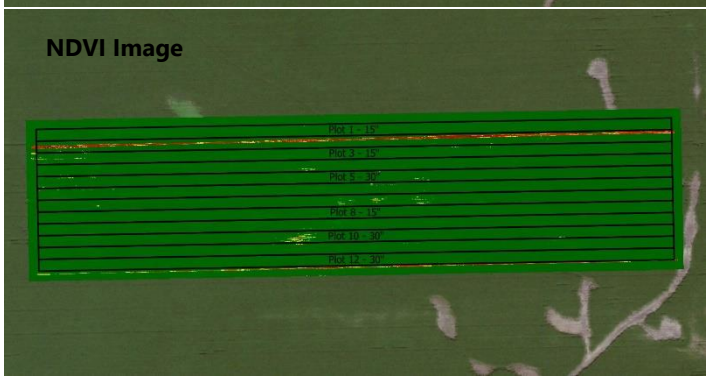
	R1[ǂǂ]	R3	R5
15"	86% A	92% A	92% A
30"	80% A	90% A	90% A

[ǂ]Closure percentages in columns followed by different letters are significantly different from one another

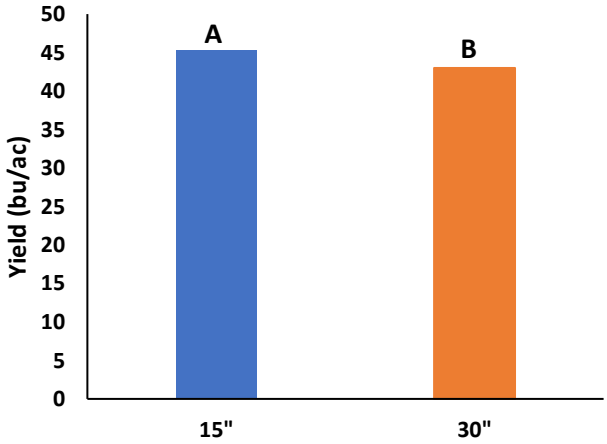
[ǂǂ]High variability in measurements at R1 stage

Field Images August 20





Yield by Treatment



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Overall Yield & Economics

	Mean (bu/ac)	Change in Profit/ac (@ soybean price of $10 - $12/bu) ǂ	
15”	45.3	+$23 to +$28/ac	
30”	43.0		
Yield Difference	2.3		
P-Value	0.0280		
CV	5.7%		
Significance	**Yes**	**Economic**	**Yes**

ǂ Does not account for any equipment/operating cost differences between spacings; profit reflects increase in income with the increase in yield for soybeans on 15” spacing compared to soybeans on 30” spacing

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