Soybean Row Spacing Trial

Trial ID: 2020_SRS02 – R.M. of Bifrost-Riverton

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

Summary: Yield significantly increased by 2.1 bu/ac with 10" row spacing compared to 20" spacing. The canopy began to close faster in the 10" row spacing strips, and closure was significantly greater at R1, R3 and R5 in the 10" spacing compared to the 20" spacing.

Trial Information

Treatment	10" vs 20"
Soil Texture	Clay
Previous Crop	Oats
Tillage	Conventional
Seeding Equipment	60 ft Planter
Seeding Date	May 26
Variety	P003A97X
Seeding Rate	165 000 seeds/ac
Harvest Date	September 26

Precipitation (mm)

	May	June	July	August
Normal	44.7	75.6	69	79.7
Rainfall	12.1	83.5	61.2	33.5

Plant Stand (plants/ac)ǂ

	VC	R7
10"	136,500	145,000
20"	140,500	147,500

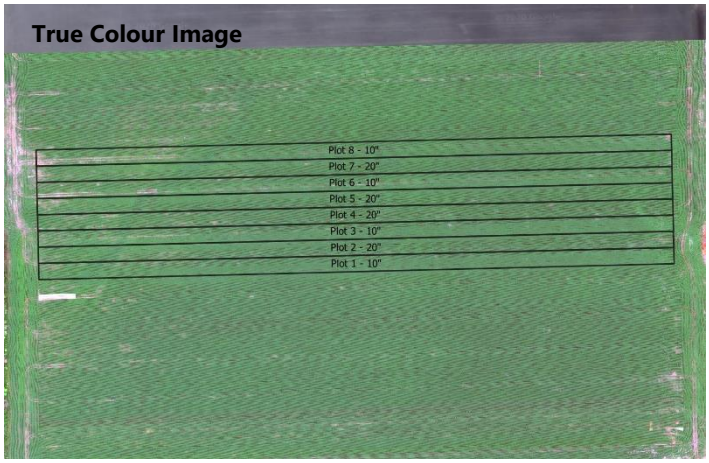
ǂ Emergence continued after early season plant counts at this site

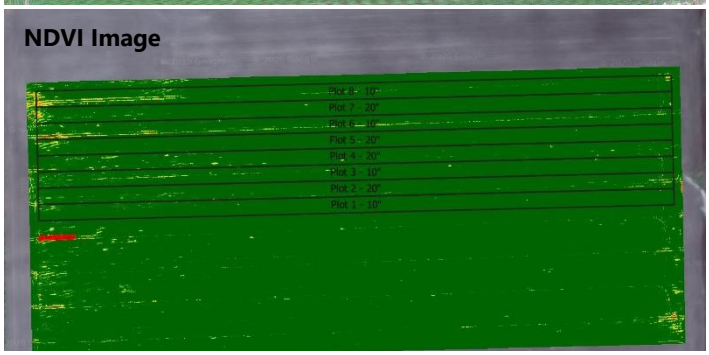
% Canopy Closureǂ

	R1	R3	R5
10"	85% A	89% A	89% A
20"	76% B	84% B	86% B

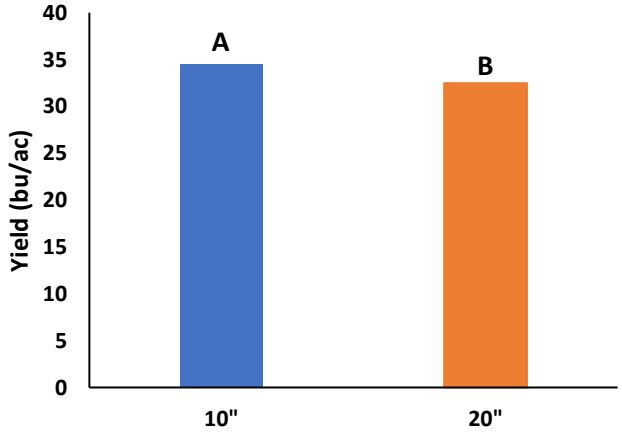
ǂ Closure percentages in columns followed by different letters are significantly different from one another

Field Images August 14





Yield by Treatment



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Overall Yield & Economics

	Mean (bu/ac)	Change in Profit/ac (@ soybean price of $10 - $12/bu) ǂ
10”	34.6	+$21 to +$25/ac
20”	32.5	
Yield Difference	2.1	
P-Value	0.0073	
CV	3.5%	
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 10” spacing compared to soybeans on 20” spacing

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