

# Soybean Row Spacing Trial

**Trial ID:** 2021-SRS05 – R.M. of Louise

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

**Summary:** There was no significant yield difference between soybeans at 7.5 and 15" row spacing. By the end of the season, canopy closure was statistically similar for the two row spacing treatments.

## Trial Information

<b>Treatment</b>	7.5" vs. 15"
<b>Soil Texture</b>	Clay Loam
<b>Previous Crop</b>	Barley
<b>Tillage</b>	Zero Till
<b>Seeding Equipment</b>	30 ft Disc Drill
<b>Seeding Date</b>	May 26
<b>Seeding Rate</b>	166 000
<b>Harvest Date</b>	September 26

## Precipitation (mm)

	May	Jun	Jul	Aug	Total
<b>Rainfall</b>	33.6	93.4	13.3	61.1	201.4
<b>Normal</b>	61.1	89.8	68.3	72.3	291.5
<b>% Normal</b>	55%	104%	19%	85%	69%

## Plant Stand (plants/ac)

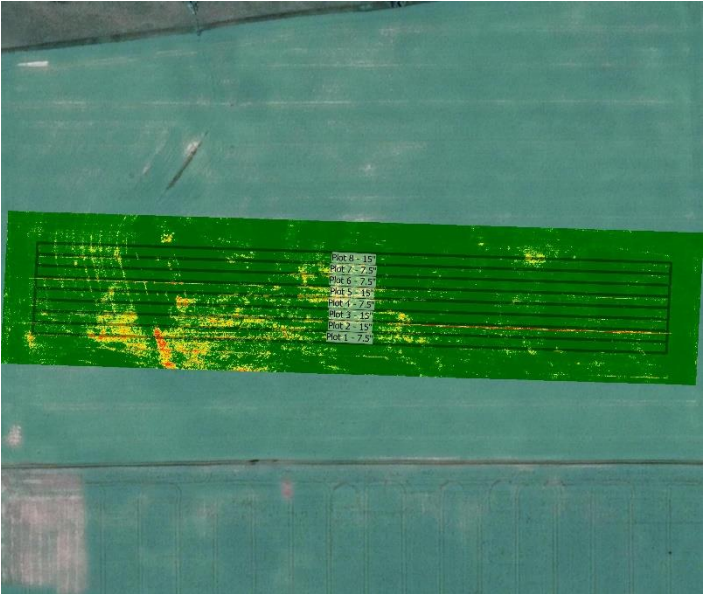
	V1	R7
<b>7.5"</b>	131,000	131,000
<b>15"</b>	122,000	148,000

## % Canopy Closure†

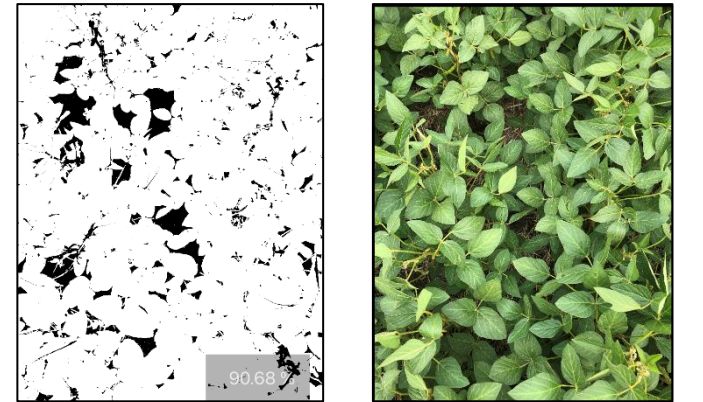
	R1	R3	R5
<b>7.5"</b>	21% B	57% B	91% A
<b>15"</b>	23% A	68% A	88% A

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

## NDVI Field Image August 13



## Canopy Closure Images

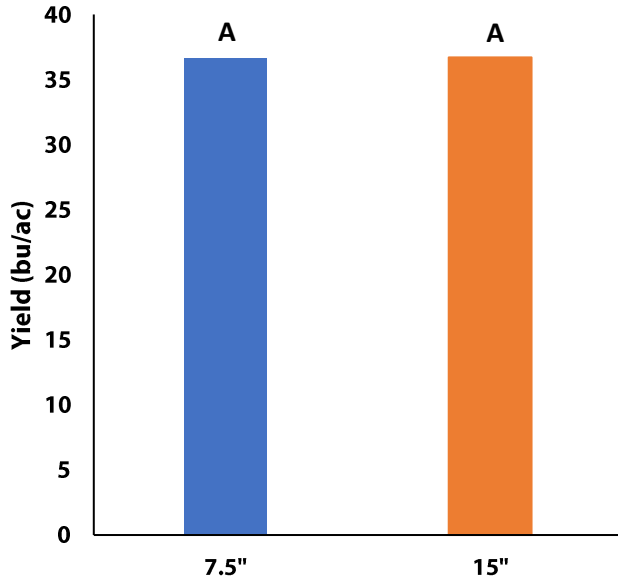


Canopeo app measurements of 7.5" row spacing canopy closure at R5 (left) and corresponding true colour image (right).



## Soybean Row Spacing Trial

### Yield by Treatment



### Overall Yield & Economics

	Mean (bu/ac)	Change in Profit/ac <sup>†</sup>
7.5"	36.6	n/a
15"	36.7	n/a
<b>Yield Difference</b>	-0.1	
<b>P-Value</b>	0.8973	
<b>CV</b>	3.9%	
<b>Significance</b>	<b>No</b>	<b>Economic n/a</b>

<sup>†</sup> Does not account for any equipment/operating cost differences between spacings