

# Soybean Double Inoculant Trial

**Trial ID: 2025-S2IN01 – R.M. of Dauphin**

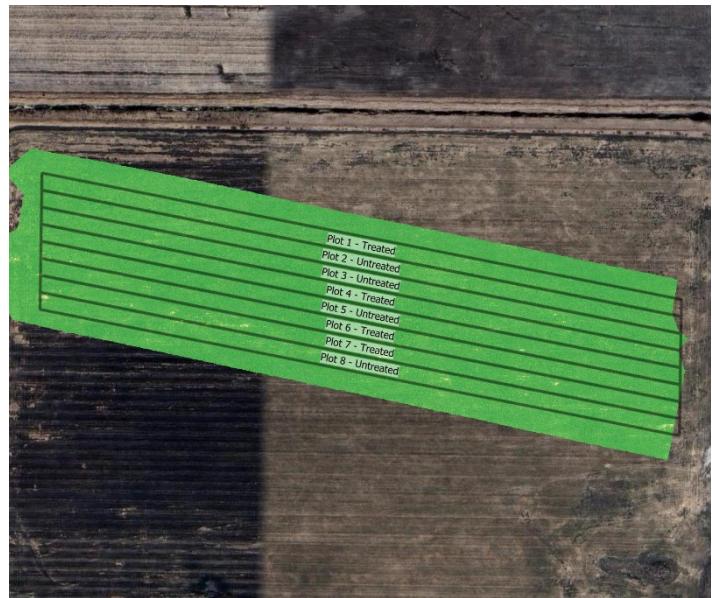
**Objective:** Quantify the agronomic and economic impacts of seed-applied inoculant (single inoculation) vs. seed-applied plus in-furrow inoculant (double inoculation) in soybeans. This trial requires a minimum field history of 2 previous soybean crops.

**Summary:** Nodulation ratings were similar between treatments and agronomically sufficient. There was no significant yield difference between single and double inoculated soybeans. Due to the lack of yield response, there was a decrease in profit/ac with double inoculation, equivalent to the cost of the additional inoculant.

## Trial Information

<b>Treatments</b>	1 x Liquid On-Seed Granular In-Furrow
<b>Last Soybean Crop</b>	2022
<b>Soybean History</b>	Three Year History
<b>Soil Texture</b>	Loam
<b>Previous Crop</b>	Fescue Grass
<b>Tillage</b>	Zero Tillage
<b>Seeding Date</b>	5/12/2025
<b>Variety</b>	DKB002-32
<b>Seeding Rate</b>	175,000 seeds/ac
<b>Row Spacing</b>	10 in.
<b>Plant Stand @ V2</b>	132,000 plants/ac
<b>Harvest Date</b>	10/10/2025

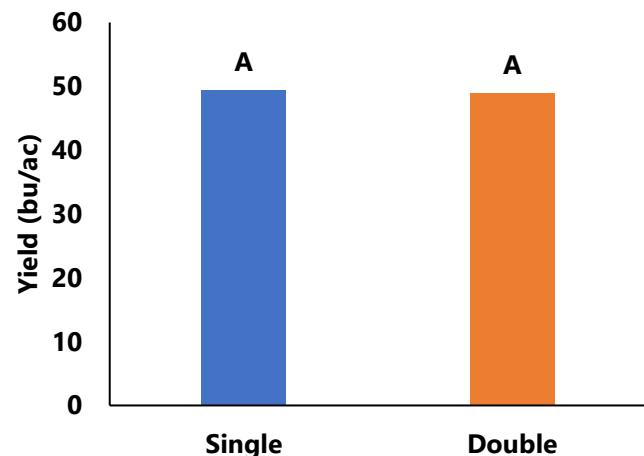
## NDVI Field Image August 14



## Precipitation (mm)

	May	June	July	Aug	Total
<b>Rainfall</b>	25.1	47.6	30	83.4	186.1
<b>Normal</b>	56.19	92.66	79.88	66.25	294.98
<b>% Norm</b>	45%	51%	38%	126%	63%

## Yield by Treatment



## Nodulation<sup>†</sup>

	Average Nodulation Rating @ R3
<b>Double</b>	3.98
<b>Single</b>	3.40

<sup>†</sup> 0 = no nodules, 1 = Poor (<5/plant), 2 = Fair (<10/plant), 3 = Good (<20/plant), 4 = Excellent (>20/plant). Averages followed by different letters are significantly different at  $\alpha = 0.05$



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### Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit ‡‡
<b>Double Inoculant</b>	49.0	\$12.00/ac	-\$12.00/ac
<b>Single Inoculant</b>	49.4	\$5.00/ac	
<b>Yield Difference</b>	-0.4		
<b>P-Value</b>	0.7267		
<b>CV</b>	3.1%		
<b>Significance</b>	<b>No</b>	<b>Economic</b>	<b>No</b>

† Based on an estimated cost for on-seed + granular in-furrow vs. on-seed only

‡‡ Because yields were not significantly different, there is no increased income with the double inoculant to offset the increase in price