

## Soybean Inoculant Trial - Seed Applied vs. Seed Applied & In-Furrow Inoculant

Trial ID: 2018-S2In09 – 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 soybean fields. This trial requires a minimum field history of 2 previous soybean crops.

TRIAL INFORMATION	
Treatment	Single vs. Double Inoculation
Rural Municipality	Dauphin
Previous Crop	Soybean
Soil Description	Clay / Loam
Tillage	No-Till
Planting Date	May 22, 2018
Variety	Akras R2
Row Spacing	9.8"
Seeding Rate	199,000 seeds/ac
Plant Stand @V1	180,000 plants/ac
# of Years since Soy	1 year
# of Prev. Soy Crops	2017, 2014
In-Furrow Inoculant	7.5 lbs/ac Cell-Tech (granular)
Harvest Date	October 20, 2018

SOIL PROPERTIES			
N 0-24"	pH	Salts 0-6"	CCE%
31 lbs/ac	7.7	2.25	5.3%

PRECIPITATION <sup>†</sup>				
	May	June	July	Aug
Rainfall	38	104	91	3
Normal	54	87	73	63

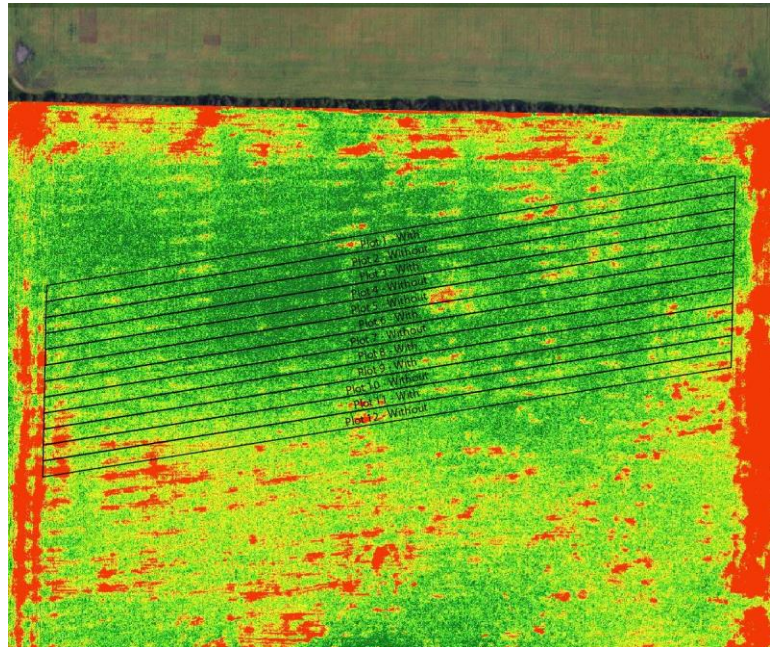
<sup>†</sup> Growing season precipitation (mm)

NODULATION COUNT	
	Average # of Nodules @ R2
Double Inoculation	23
Single Inoculation	20

OVERALL YIELD	
	Mean (bu/ac)
Double Inoculation	43.1
Single Inoculation	43.7
Yield Difference	- 0.6
P-Value	0.2292
CV	2.2%
Significance	No

**Summary:** There was no significant yield difference between seed applied inoculant (single inoculant) and seed applied plus in-furrow inoculant (double inoculation) applied to soybeans. There was good nodulation for both single and double inoculation treatments. This trial was established on a field with a history of at least two previous, well nodulated soybean crops.

NDVI FIELD IMAGE – AUG 9, 2018 (GROWTH STAGE R6)



STRIP YIELD

