

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

Trial ID: 2018-S2In06 – R.M. of Glenella-Lansdowne

**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

<b>Treatment</b>	Single vs. Double Inoculation
<b>Rural Municipality</b>	Glenella-Lansdowne
<b>Previous Crop</b>	Winter Wheat
<b>Soil Description</b>	Loamy Fine Sand
<b>Tillage</b>	Conventional
<b>Planting Date</b>	May 19, 2018
<b>Variety</b>	P006T46R
<b>Row Spacing</b>	10"
<b>Seeding Rate</b>	162,000 seed/ac
<b>Plant Stand @V1</b>	123,000 plants/ac
<b># of Years since Soy</b>	3 years
<b># of Prev. Soy Crops</b>	2015, 2014
<b>In-Furrow Inoculant</b>	5 lbs/ac Nodulator (granular)
<b>Harvest Date</b>	September 19, 2018

### SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
61 lbs/ac	8.2	0.25	4.8%

### PRECIPITATION<sup>†</sup>

	May	June	July	Aug
<b>Rainfall</b>	46	42	67	37
<b>Normal</b>	50	77	62	64

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

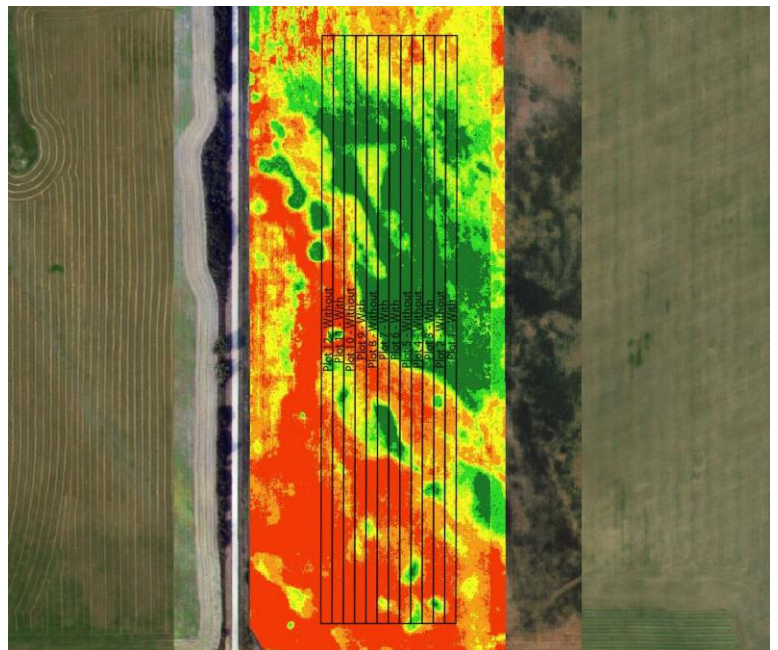
### NODULATION COUNT

Average # of Nodules @ R2	
<b>Double Inoculation</b>	18
<b>Single Inoculation</b>	18

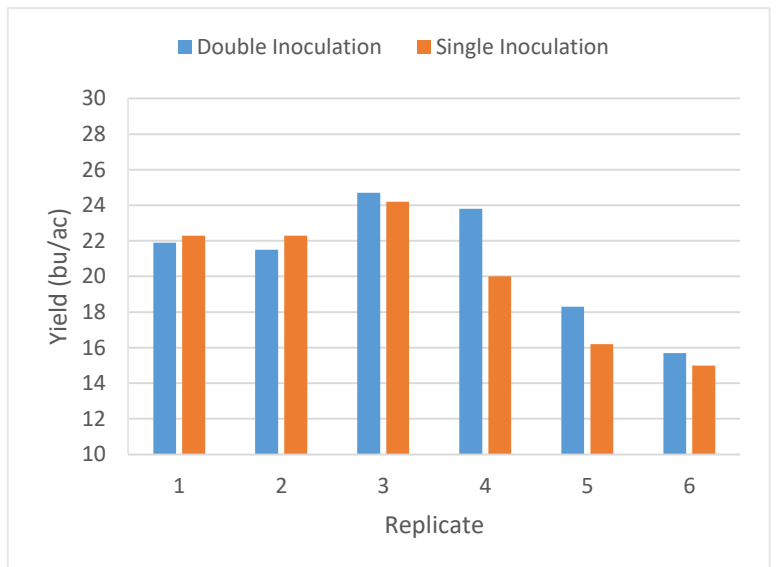
### OVERALL YIELD

Mean (bu/ac)	
<b>Double Inoculation</b>	21.0
<b>Single Inoculation</b>	20.0
<b>Yield Difference</b>	1.0
<b>P-Value</b>	0.2176
<b>CV</b>	16.7%
<b>Significance</b>	<b>No</b>

### NDVI FIELD IMAGE – AUG 11, 2018 (GROWTH STAGE R6)



### STRIP YIELD



**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.