

## Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2018-S1In01 – R.M. of Grey

**Objective:** Quantify the agronomic and economic impacts of seed applied inoculant (single inoculation) vs. no inoculant applied in soybean fields. The trial is conducted in the Central, Eastern and Interlake regions of Manitoba and requires a minimum history of three previous soybean crops.

### TRIAL INFORMATION

Treatment	Seed Applied Inoculant
Rural Municipality	Grey
Previous Crop	Winter Wheat
Soil Description	Clay
Tillage	Conventional
Planting Date	May 8, 2018
Variety	24-10RY
Row Spacing	20"
Seeding Rate	160,000 seeds/ac
Plant Stand @ V1	144,000 plants/ac
# of Years since Soy	4 years
# of Prev. Soy Crops	2014, 4-5 times in past
Harvest Date	September 19, 2018

### SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
44 lbs/ac	7.6	0.79	3.5%

### PRECIPITATION†

	May	June	July	Aug
Rainfall	29	70	41	22
Normal	54	81	66	71

† Growing season precipitation (mm)

### NODULATION COUNT

	Average # of Nodules @ R2
Seed Applied Inoculant	18
No Inoculant	18

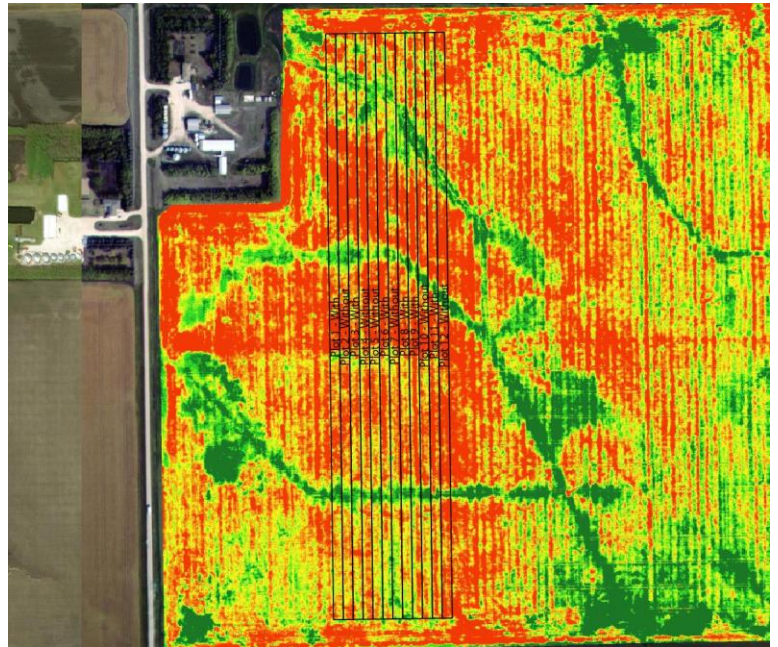
### OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	26.7
No Inoculant	27.0
Yield Difference	-0.3
P-Value	0.4158
CV	3.2%
Significance	No

**Summary:** There was no significant yield difference between soybeans treated with a single seed applied inoculant vs. no inoculant. Soybeans were well nodulated for both the treated and untreated strips. This trial was established on a field with a history of at least three previous, well nodulated soybean crops and the most recent soybean crop was grown within the past four years.

MPSG would like to thank Tone Ag Consulting for the research support

### NDVI FIELD IMAGE – AUGUST 13, 2018



### STRIP YIELD

