

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

Trial ID: 2018-S1In06– R.M. of Hanover

**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	Hanover
Previous Crop	Canola
Soil Description	Clay
Tillage	Conventional
Planting Date	May 15, 2018
Variety	23-60RY
Row Spacing	10"
Seeding Rate	210,000 seeds/ac
Plant Stand @ V1	183,000 plants/ac
# of Years since Soy	2 years
# of Prev. Soy Crops	2016, >3x in past
Harvest Date	September 11, 2018

### SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
54 lbs/ac	8.2	0.69	8.5%

### PRECIPITATION†

	May	June	July	Aug
Rainfall	42	81	36	30
Normal	58	91	80	66

† Growing season precipitation (mm)

### NODULATION COUNT

#### Average # of Nodules @ R2

Seed Applied Inoculant	27
No Inoculant	32

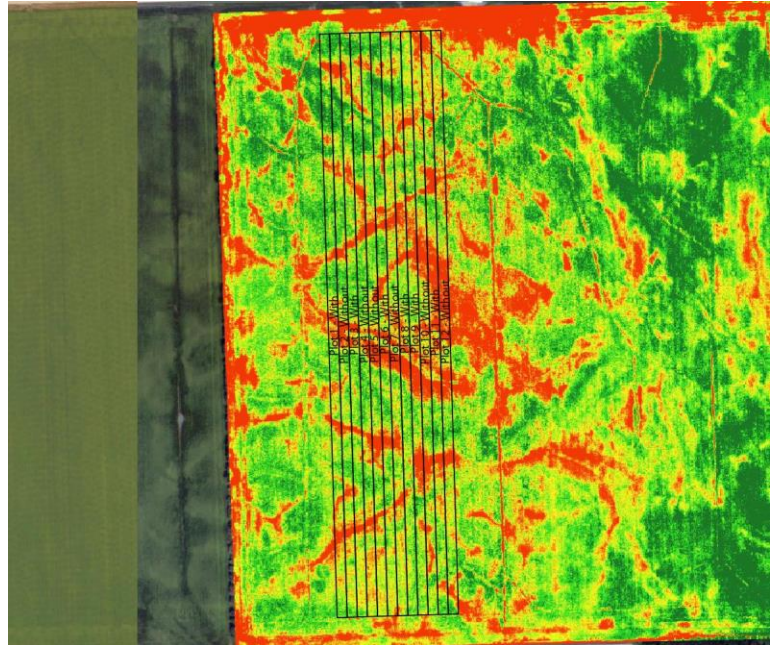
### OVERALL YIELD

#### Mean (bu/ac)

Seed Applied Inoculant	47.4
No Inoculant	47.2
Yield Difference	0.2
P-Value	0.4560
CV	2.5%
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.

### NDVI FIELD IMAGE – AUGUST 13, 2018



### STRIP YIELD

