

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

Trial ID: 2016-S1In08 – R.M. of Morris

**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 3 previous soybean crops.

### TRIAL INFORMATION

Treatment	Seed Applied Inoculant
Rural Municipality	Morris
Previous Crop	Corn
Soil Description	Clayey Lacustrine
Tillage	Conventional
Planting Date	May 18, 2016
Variety	Astro R2
Row Spacing	20"
Seeding Rate	175,000 seeds/ac
Plant Stand @ V1	103,000 plants/ac
# of Years since Soy	2014 – 1 year
# of Prev. Soy Crops	4 previous soybean crops
Harvest Date	October 3, 2016

### SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
13 lbs/ac	7.2	1.07	0.7

### PRECIPITATION<sup>†</sup>

	May	June	July	Aug
Rainfall	57.5	120	80	85
Normal	67.6	101.8	85.6	83.9

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

### NODULATION COUNT

#### Average # of Nodules @ R2

Seed Applied Inoculant	47
No Inoculant	43

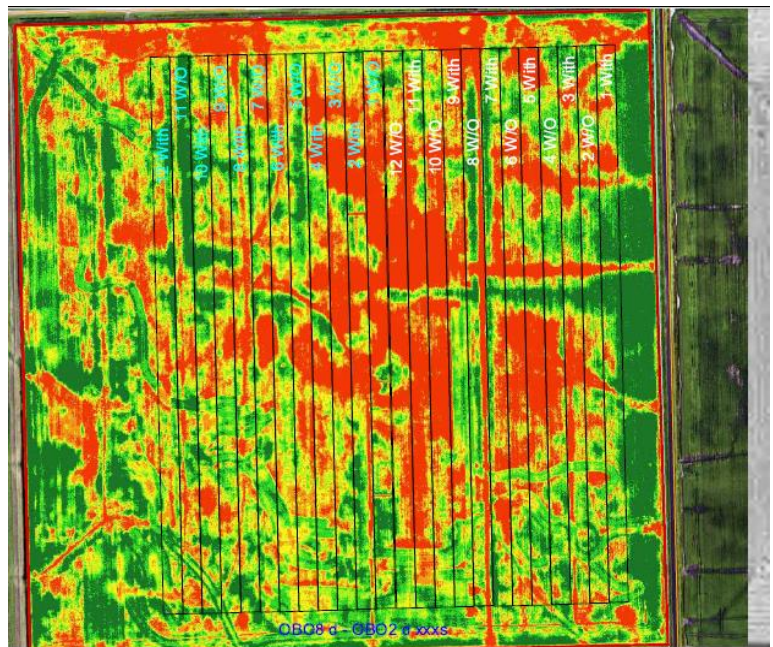
### OVERALL YIELD

#### Mean (bu/ac)

Seed Applied Inoculant	18.8
No Inoculant	18.3
Yield Difference	0.5
P-Value	0.6510
CV	26.0%
Significance	No

**Summary:** There was no significant yield difference between seed-applied inoculant and no inoculant applied to soybeans. There was one year since the last soybean crop was grown in 2014, and there was a history of four previous soybean crops on this field. Nodulation was high for both treated and untreated strips.

### FIELD IMAGE – AUG. 17 (GROWTH STAGE R5.5)



### STRIP YIELD

