

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

Trial ID: 2017-S1In10 – R.M. of Ste Anne

**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	Ste Anne
Previous Crop	Soybeans
Soil Description	Clayey Lacustrine
Tillage	Deep Tillage 2x
Planting Date	May 15, 2017
Variety	P006T46R
Row Spacing	10"
Seeding Rate	190,000 seeds/ac
Plant Stand @ V1	163,000 plants/ac
# of Years since Soy	2016 – last year
# of Prev. Soy Crops	4 previous soybean crops
Harvest Date	September 13, 2017

### SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
60 lbs/ac	7.9	0.74	2.6

### PRECIPITATION†

	May	June	July	Aug
Rainfall	26.7	67.0	47.0	8.2
Normal	67.5	100.1	93.2	73.8

† Growing season precipitation (mm)

### NODULATION COUNT

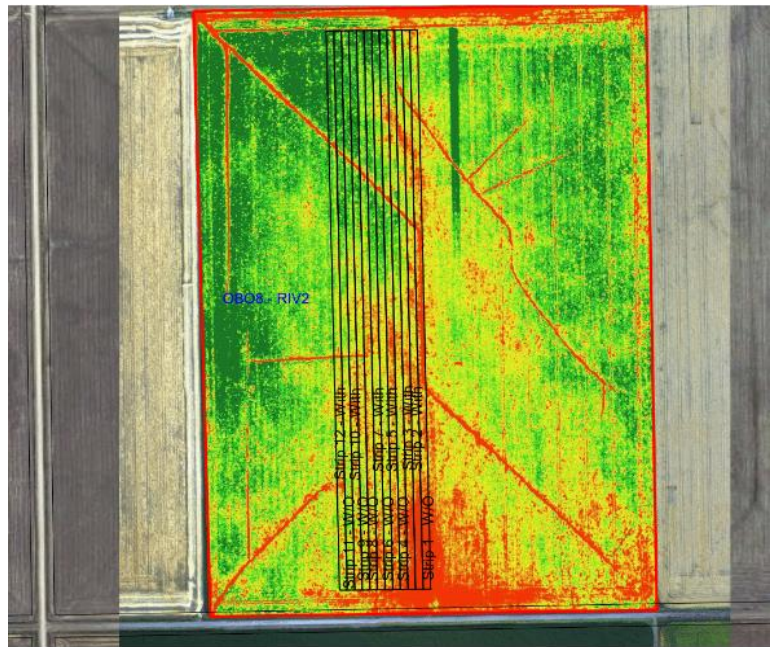
	Average # of Nodules @ R2
Seed Applied Inoculant	41
No Inoculant	41

### OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	38.2
No Inoculant	37.9
Yield Difference	0.3
P-Value	0.6326
CV	2.5%
Significance	No

**Summary:** There was no significant difference between seed applied inoculant and no inoculant applied to soybeans. The previous crop was soybeans, and there was a history of four previous soybean crops on this field. Nodulation was high for both treated and untreated strips.

### FIELD IMAGE



### STRIP YIELD

