

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

Trial ID: 2017-S1In07 – R.M. of Taché

**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	Taché
Previous Crop	Spring Wheat
Soil Description	Clayey Lacustrine
Tillage	Cultivate 1x
Planting Date	May 25, 2017
Variety	25-10 RY
Row Spacing	20"
Seeding Rate	175,000 seeds/ac
Plant Stand @ V1	155,500 plants/ac
# of Years since Soy	2014 – 2 years
# of Prev. Soy Crops	>3 previous soybean crops
Harvest Date	October 10, 2017

### SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
31 lbs/ac	7.8	0.81	3.2

### PRECIPITATION<sup>†</sup>

	May	June	July	Aug
Rainfall	24.9	55.5	53.8	27.7
Normal	54.1	90.0	79.5	77.0

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

### NODULATION COUNT

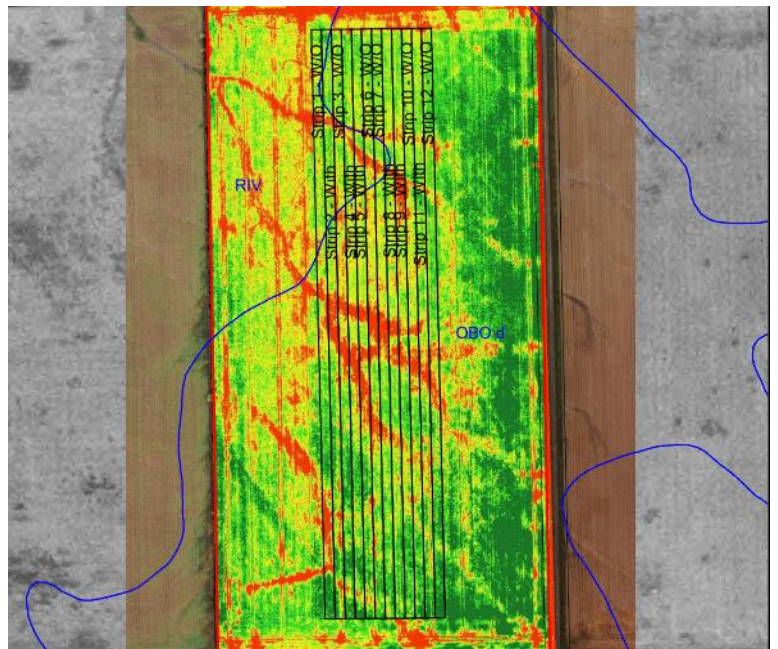
	Average # of Nodules @ R2
Seed Applied Inoculant	44
No Inoculant	48

### OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	32.3
No Inoculant	32.4
Yield Difference	-0.1
P-Value	0.8187
CV	2.1%
Significance	No

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

### FIELD IMAGE



### STRIP YIELD

