

## Soybean Inoculant Trial – Seed Applied vs. Seed Applied & In-Furrow Inoculant

Trial ID: 2014-S2In03 – R.M. of Dufferin

**Objective:** Quantify the agronomic and economic impacts of seed applied inoculant (single inoculation) vs. seed applied plus in-furrow inoculant (double inoculation) in soybean fields. The trial was conducted in the Central, Eastern and Interlake regions of Manitoba and required a minimum history of 2 previous soybean crops.

### TRIAL INFORMATION

Treatment	Single vs. Double Inoculation
Rural Municipality	Dufferin
Previous Crop	Spring Wheat
Soil Description	Sandy Loam Lacustrine
Tillage	Conventional
Planting Date	May 21, 2014
Variety	S00-T9
Row Spacing	30"
Seeding Rate	178,000 seeds/ac
Plant Stand @ V1	127,000 plants/ac
# of Years since Soy	2012 – 2 years
# of Prev. Soy Crops	3 previous soybean crops
Harvest Date	October 2, 2014

### SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
25 lbs/ac	7.4	0.2	0.4

### PRECIPITATION†

	May – August
Cumulative Rainfall	260 mm
Historical Rainfall	318 mm

† Growing season precipitation (mm)

### NODULATION COUNT

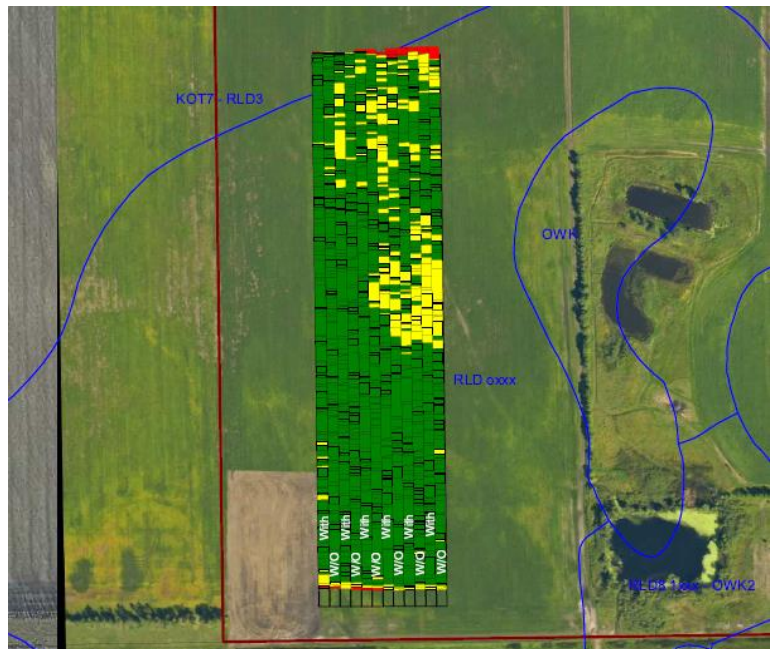
	Average # of Nodules @ R2
Double Inoculation	>20 nodules
Single Inoculation	>20 nodules

### OVERALL YIELD

	Mean (bu/ac)
Double Inoculation	52.6
Single Inoculation	51.9
Yield Difference	0.7
P-Value	0.4218
CV	4.7%
Significance	No

**Summary:** There was no significant yield difference between seed applied inoculant (single inoculation) and seed applied plus in-furrow inoculant (double inoculation) applied to soybeans. The previous crop was wheat, and there was a history of three previous soybean crops grown on this field. There was more than 20 nodules per plant for both inoculation treatments.

### FIELD IMAGE



### STRIP YIELD

