

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

Trial ID: 2014-S2In04 – R.M. of Springfield

**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	Springfield
Previous Crop	Spring Wheat
Soil Description	Clayey Lacustrine
Tillage	Zero Till
Planting Date	May 31, 2014
Variety	NSC Moosomin RR2Y
Row Spacing	15"
Seeding Rate	196,000 seeds/ac
Plant Stand @ V1	140,000 plants/ac
# of Years since Soy	2012 – 2 years ago
# of Prev. Soy Crops	2 previous soybean crops
Harvest Date	October 13, 2014

### SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
19 lbs/ac	7.5	1.1	2.0

### PRECIPITATION†

	May – August
Cumulative Rainfall	318 mm
Historical Rainfall	371 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	38.8
Single Inoculation	38.7
Yield Difference	0.1
P-Value	0.9484
CV	5.8%
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 two previous soybean crops grown on this field. There was more than 20 nodules per plant for both inoculation treatments.

### FIELD IMAGE



### STRIP YIELD

