

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

Trial ID: 2014-S2In02 – R.M. of Alexander

**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	Alexander
Previous Crop	Oats
Soil Description	Clayey Lacustrine/ Shallow Organic Forest Peat
Tillage	Conventional
Planting Date	May 29, 2014
Variety	24-10 RY
Row Spacing	10"
Seeding Rate	210,000 seeds/ac
Plant Stand @ V1	130,000 plants/ac
# of Years since Soy	2012 -2 years ago
# of Prev. Soy Crops	2 previous soybean crops
Harvest Date	October 20, 2014

### SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
7 lbs/ac	7.6	0.6	0.6

### PRECIPITATION†

	May – August
Cumulative Rainfall	348 mm
Historical Rainfall	306 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	20.6
Single Inoculation	20.8
Yield Difference	-0.2
P-Value	0.7069
CV	9.3%
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 oats, 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

