

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

Trial ID: 2013-S2In01 – R.M. of Brokenhead

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	Brokenhead
Previous Crop	Barley
Soil Description	Clayey Lacustrine
Tillage	Harrow 1x
Planting Date	May 23, 2013
Variety	900Y71
Row Spacing	10"
Seeding Rate	210,000 seeds/ac
Plant Stand @ V1	91,000 plants/ac
# of Years since Soy	2011 – 1 year
# of Prev. Soy Crops	2 previous soybean crop
Harvest Date	October 10, 2013

SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
47 lbs/ac	8.2	1.9	7.3

PRECIPITATION†

	May – August
Cumulative Rainfall	278 mm
Historical Rainfall	306 mm

† Growing season precipitation (mm)

NODULATION COUNT

	Average # of Nodules @ R2
Double Inoculation	10-20 nodules
Single Inoculation	10-20 nodules

OVERALL YIELD

	Mean (bu/ac)
Double Inoculation	27.8
Single Inoculation	27.9
Yield Difference	-0.1
P-Value	0.8527
CV	5.6%
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 barley, and there was a history of two previous soybean crops grown on this field. There was 10-20 nodules per plant for both inoculation treatments.

FIELD IMAGE



STRIP YIELD

