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

Trial ID: 2014-S2In07 – R.M. of Montcalm

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 Inoculant
Rural Municipality	Montcalm
Previous Crop	Soybeans
Soil Description	Clayey Lacustrine
Tillage	Conventional
Planting Date	May 23, 2014
Variety	900Y61
Row Spacing	15”
Seeding Rate	195,000 seeds/ac
Plant Stand @ V1	161,000 plants/ac
# of Years since Soy	2013 – last year
# of Prev. Soy Crops	2 previous soybean crops
Harvest Date	September 26, 2014

SOIL PROPERTIES

N 0-24”	pH	Salts 0-6”	CCE%
17 lbs/ac	6.8	0.5	0.1

PRECIPITATIONǂ

	May – August
Cumulative Rainfall	315 mm
Historical Rainfall	339 mm

ǂ Growing season precipitation (mm)

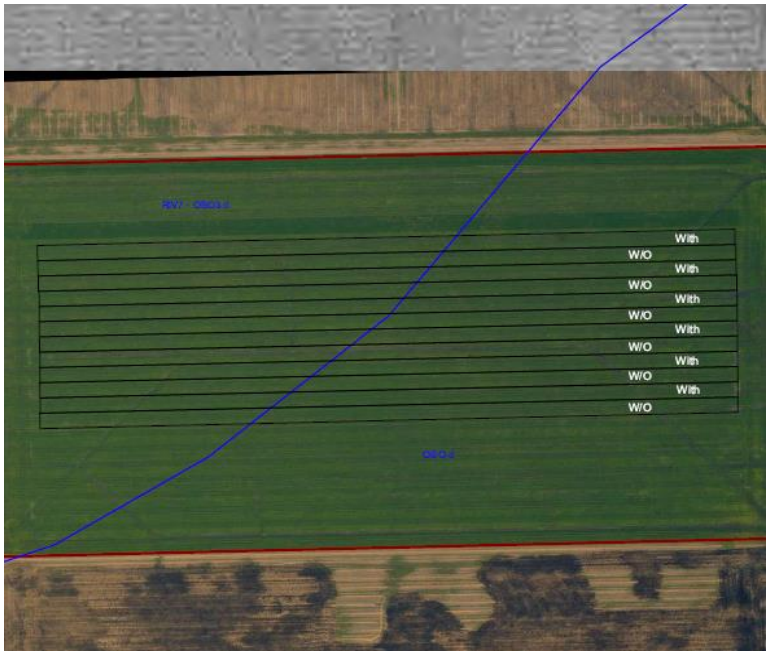
NODULATION COUNT

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

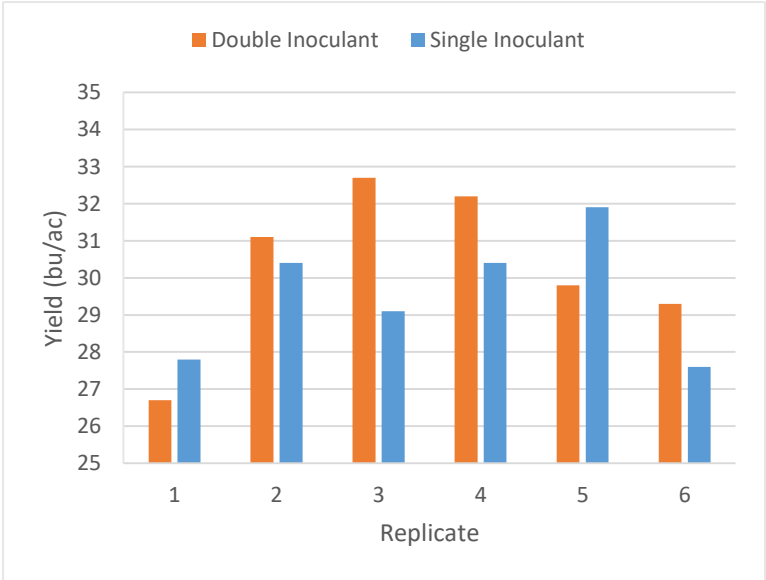
OVERALL YIELD

	Mean (bu/ac)
Double Inoculation	30.3
Single Inoculation	29.5
Yield Difference	0.8
P-Value	0.4084
CV	6.4%
Significance	**No**

FIELD IMAGE



STRIP YIELD



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 soybeans, 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.

MPSG would like to thank Tone Ag Consulting for conducting the research

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