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

Trial ID: 2014-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	Soybeans
Soil Description	Sandy Loam Lacustrine
Tillage	Conventional
Planting Date	May 22, 2014
Variety	PS 0027 RR
Row Spacing	10”
Seeding Rate	240,000 seeds/ac
Plant Stand @ V1	240,000 plants/ac
# of Years since Soy	2013 – Last Year
# of Prev. Soy Crops	3 previous soybean crops
Harvest Date	October 16, 2014

SOIL PROPERTIES

N 0-24”	pH	Salts 0-6”	CCE%
9 lbs/ac	8.1	0.4	4.0

PRECIPITATIONǂ

	May – August
Cumulative Rainfall	240 mm
Historical Rainfall	306 mm

ǂ Growing season precipitation (mm)

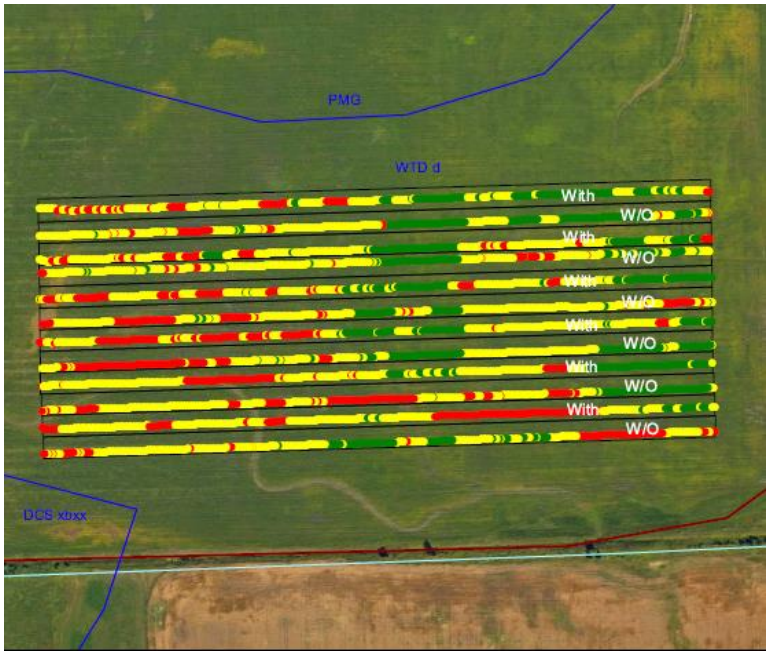
NODULATION COUNT

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

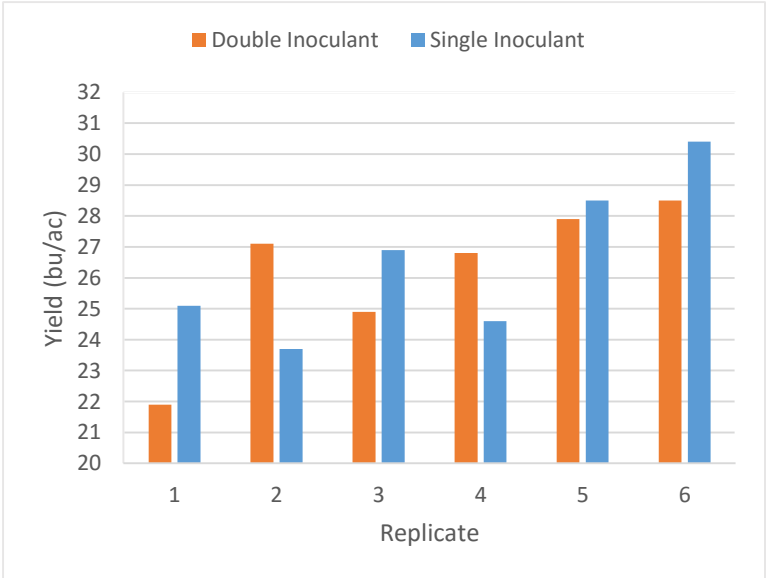
OVERALL YIELD

	Mean (bu/ac)
Double Inoculation	26.2
Single Inoculation	26.5
Yield Difference	-0.3
P-Value	0.7552
CV	9.1%
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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