Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2016-S1In01 – R.M. of Taché

Objective: Quantify the agronomic and economic impacts of seed applied inoculant (single inoculation) vs. no inoculant applied in soybean fields. The trial is conducted in the Central, Eastern and Interlake regions of Manitoba and requires a minimum history of 3 previous soybean crops.

TRIAL INFORMATION

Treatment	Seed Applied Inoculant
Rural Municipality	Taché
Previous Crop	Soybeans
Soil Description	Clayey Lacustrine
Tillage	Conventional
Planting Date	May 9, 2016
Variety	Astro R2
Row Spacing	10”
Seeding Rate	215,000 seeds/ac
Plant Stand @ V1	230,000 plants/ac
# of Years since Soy	2015 - last year
# of Prev. Soy Crops	4 previous soybean crops
Harvest Date	September 30, 2016

SOIL PROPERTIES

N 0-24”	pH	Salts 0-6”	CCE%
63 lbs/ac	7.2	0.96	0.6

PRECIPITATIONǂ

	May	June	July	Aug
Rainfall	40	90	75	117.5
Normal	67.5	100.1	93.2	73.8

ǂ Growing season precipitation (mm)

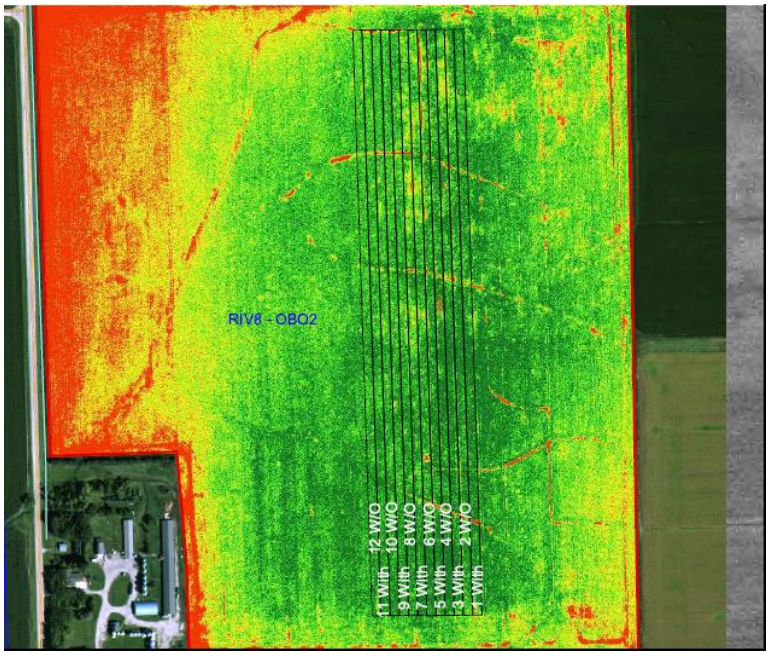
NODULATION COUNT

	Average # of Nodules @ R2
Seed Applied Inoculant	73
No Inoculant	87

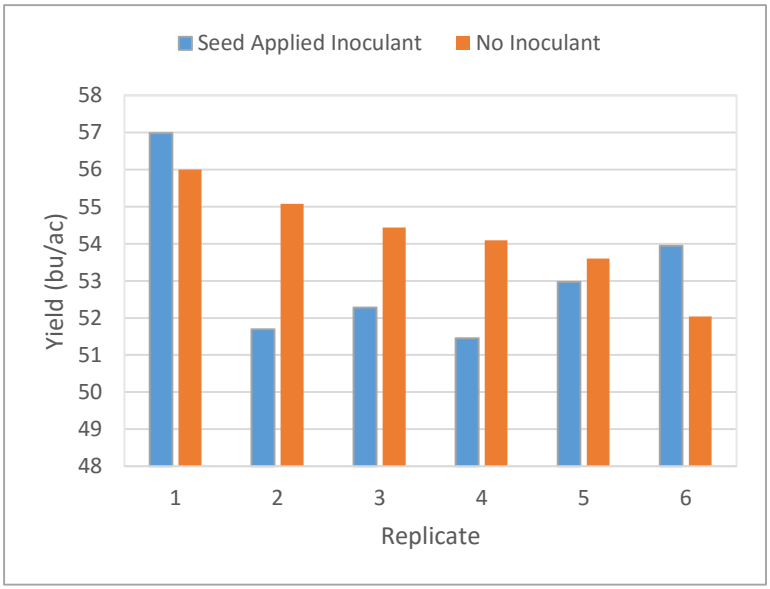
OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	53.2
No Inoculant	54.2
Yield Difference	-1.0
P-Value	0.304
CV	3.2%
Significance	**No**

FIELD IMAGE – AUG. 17 (GROWTH STAGE R5.5)



STRIP YIELD



Summary: There was no significant yield difference between seed applied inoculant and no inoculant applied to soybeans. The previous crop was soybeans, and there was a history of four previous soybean crops on this field. Nodulation was high for both the treated and untreated strips.

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

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