Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2017-S1In06 – 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 three previous soybean crops.

TRIAL INFORMATION

Treatment	Seed Applied Inoculant
Rural Municipality	Taché
Previous Crop	Soybeans
Soil Description	Clayey Lacustrine
Tillage	Harrow 1x
Planting Date	May 16, 2017
Variety	Astro R2
Row Spacing	30”
Seeding Rate	175,000 seeds/ac
Plant Stand @ V1	163,000 plants/ac
# of Years since Soy	2016 – last year
# of Prev. Soy Crops	3 previous soybean crops
Harvest Date	October 7, 2017

SOIL PROPERTIES

N 0-24”	pH	Salts 0-6”	CCE%
153 lbs/ac	7.6	0.85	2.0

PRECIPITATIONǂ

	May	June	July	Aug
Rainfall	26.7	67.0	47.0	8.2
Normal	67.5	100.1	93.2	73.8

ǂ Growing season precipitation (mm)

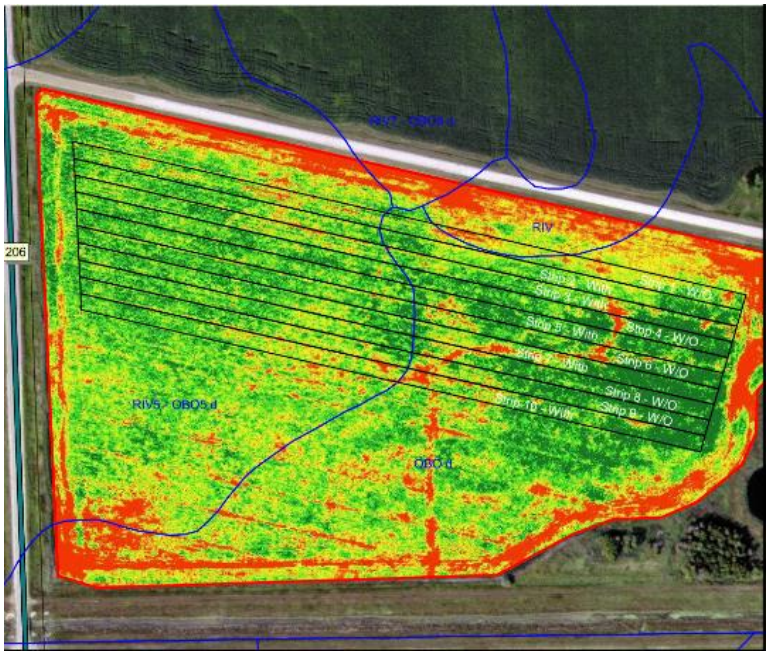
NODULATION COUNT

	Average # of Nodules @ R2
Seed Applied Inoculant	22
No Inoculant	20

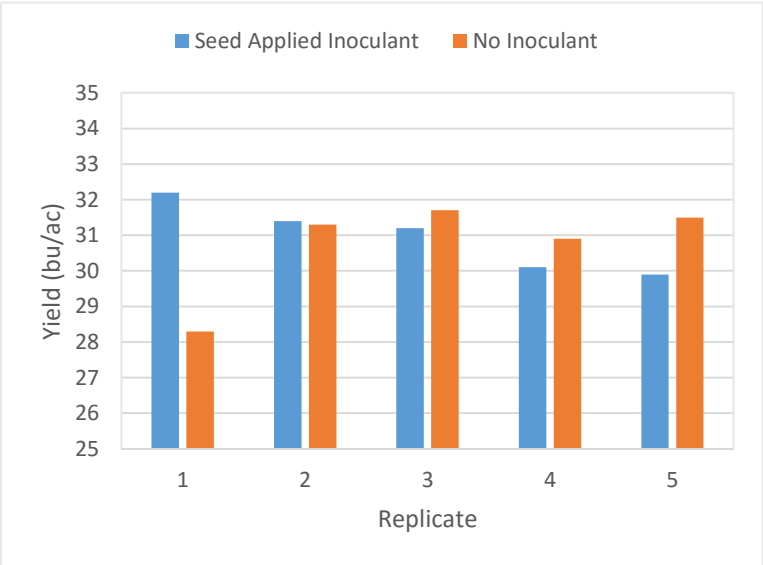
OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	31.0
No Inoculant	30.7
Yield Difference	0.3
P-Value	0.8300
CV	3.7%
Significance	**No**

FIELD IMAGE



STRIP YIELD



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

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

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