Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2017-S1In03 – R.M. of Springfield

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	Springfield
Previous Crop	Soybeans
Soil Description	Clayey Lacustrine
Tillage	Deep Tillage 1x
Planting Date	May 19, 2017
Variety	Astro R2
Row Spacing	10”
Seeding Rate	185,000 seeds/ac
Plant Stand @ V1	158,000 plants/ac
# of Years since Soy	2016 – last year
# of Prev. Soy Crops	4 previous soybean crops
Harvest Date	October 12, 2017

SOIL PROPERTIES

N 0-24”	pH	Salts 0-6”	CCE%
47 lbs/ac	7.2	0.62	0.2

PRECIPITATIONǂ

	May	June	July	Aug
Rainfall	24.9	55.5	53.8	27.7
Normal	80.4	107.1	98.0	82.6

ǂ Growing season precipitation (mm)

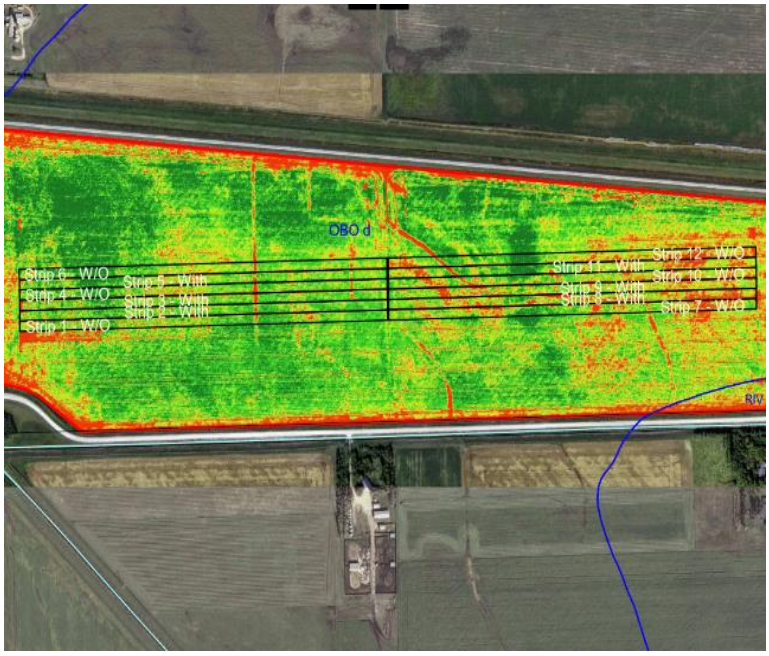
NODULATION COUNT

	Average # of Nodules @ R2
Seed Applied Inoculant	27
No Inoculant	24

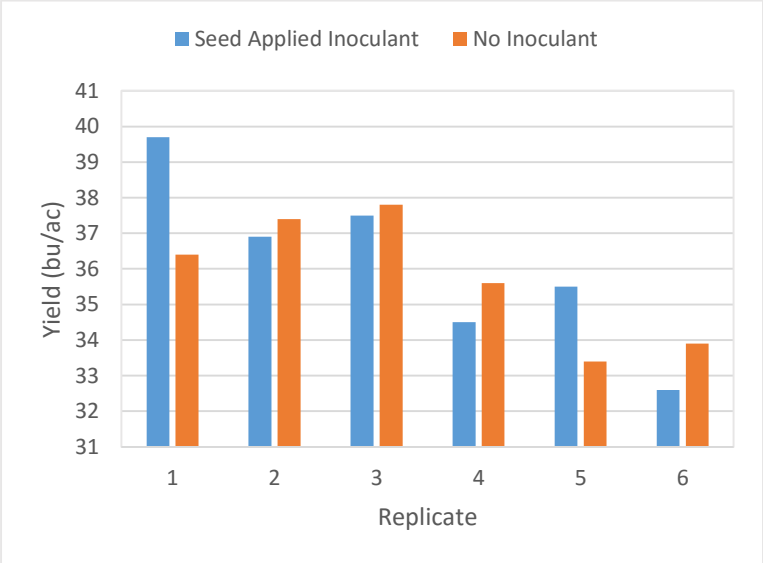
OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	36.1
No Inoculant	35.8
Yield Difference	0.4
P-Value	0.6535
CV	5.8%
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 four previous soybean crops on this field. Nodulation was high for both treated and untreated strips.

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