Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2018-S1In02 – R.M. of Brokenhead

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	Brokenhead
Previous Crop	Wheat
Soil Description	Clay
Tillage	Conventional
Planting Date	May 9, 2018
Variety	S006-W5
Row Spacing	15”
Seeding Rate	180,000 seeds/ac
Plant Stand @ V1	184,000 plants/ac
# of Years since Soy	3 years
# of Prev. Soy Crops	2015, 5x in past
Harvest Date	October 1, 2018

SOIL PROPERTIES

N 0-24”	pH	Salts 0-6”	CCE%
9 lbs/ac	8.2	0.88	---

PRECIPITATIONǂ

	May	June	July	Aug
Rainfall	53	120	25	45
Normal	54	90	73	73

ǂ Growing season precipitation (mm)

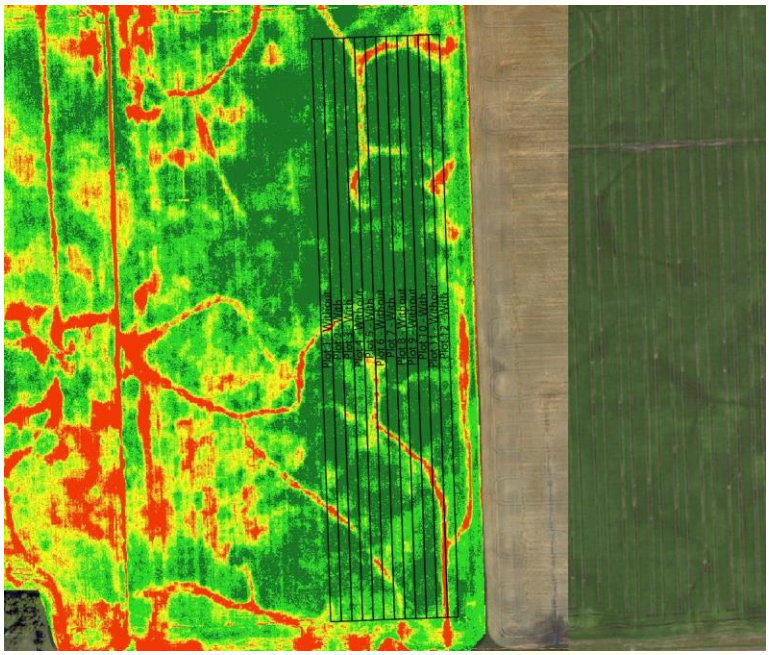
NODULATION COUNT

	Average # of Nodules @ R2
Seed Applied Inoculant	20
No Inoculant	14

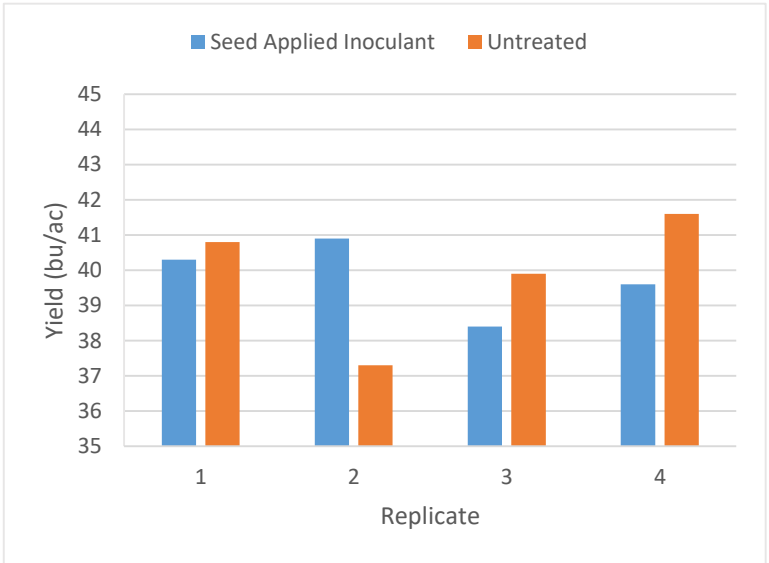
OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	39.8
No Inoculant	39.9
Yield Difference	- 0.1
P-Value	0.9290
CV	3.5%
Significance	**No**

NDVI FIELD IMAGE – AUGUST 13, 2018



STRIP YIELD



Summary: There was no significant yield difference between soybeans treated with a single seed applied inoculant vs. no inoculant. Soybeans were well nodulated for both the treated and untreated strips. This trial was established on a field with a history of at least three previous, well nodulated soybean crops and the most recent soybean crop was grown within the past four years.

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