Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2018-S1In07 – 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	Sunflower
Soil Description	Clay
Tillage	Conventional
Planting Date	May 16, 2018
Variety	NSC Jordan RR2Y
Row Spacing	20”
Seeding Rate	165,000 seeds/ac
Plant Stand @ V1	95,000 plants/ac
# of Years since Soy	3 years
# of Prev. Soy Crops	2015, >3x in past
Harvest Date	October 2, 2018

SOIL PROPERTIES

N 0-24”	pH	Salts 0-6”	CCE%
69 lbs/ac	8.1	0.93	5.8%

PRECIPITATIONǂ

	May	June	July	Aug
Rainfall	42	81	36	30
Normal	58	91	80	66

ǂ Growing season precipitation (mm)

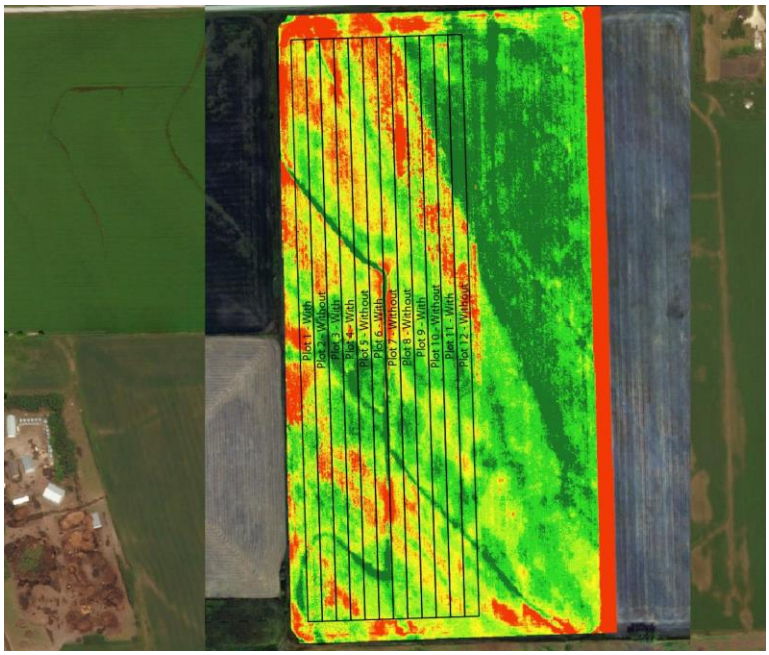
NODULATION COUNT

	Average # of Nodules @ R2
Seed Applied Inoculant	27
No Inoculant	25

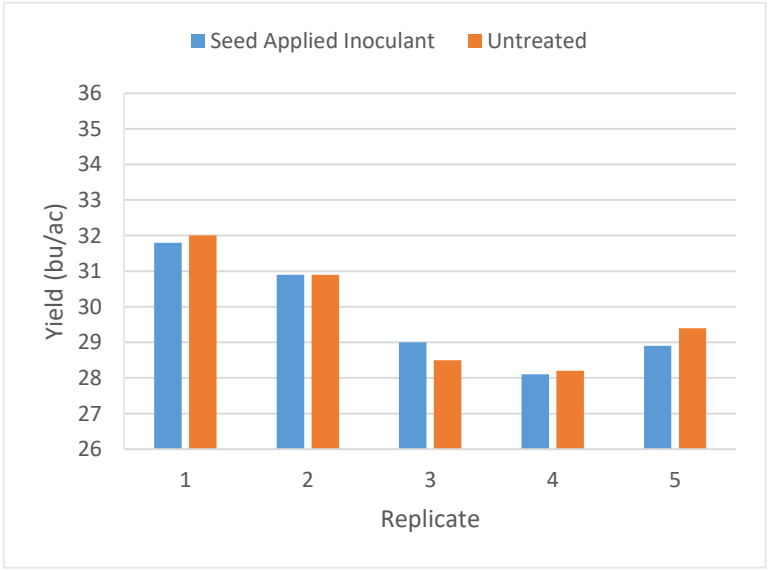
OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	29.7
No Inoculant	29.8
Yield Difference	- 0.1
P-Value	0.7316
CV	5.0%
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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