Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2018-S1In04 – R.M. of St. Clements

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	St. Clements
Previous Crop	Spring Wheat
Soil Description	Clay / Loam
Tillage	Conventional
Planting Date	May 15, 2018
Variety	24-10RY
Row Spacing	10”
Seeding Rate	180,000 seeds/ac
Plant Stand @ V1	144,000 plants/ac
# of Years since Soy	3 years
# of Prev. Soy Crops	2015, 4x in the past
Harvest Date	October 1, 2018

SOIL PROPERTIES

N 0-24”	pH	Salts 0-6”	CCE%
56 lbs/ac	8.0	1.17	3.1%

PRECIPITATIONǂ

	May	June	July	Aug
Rainfall	39	93	32	63
Normal	54	91	81	74

ǂ Growing season precipitation (mm)

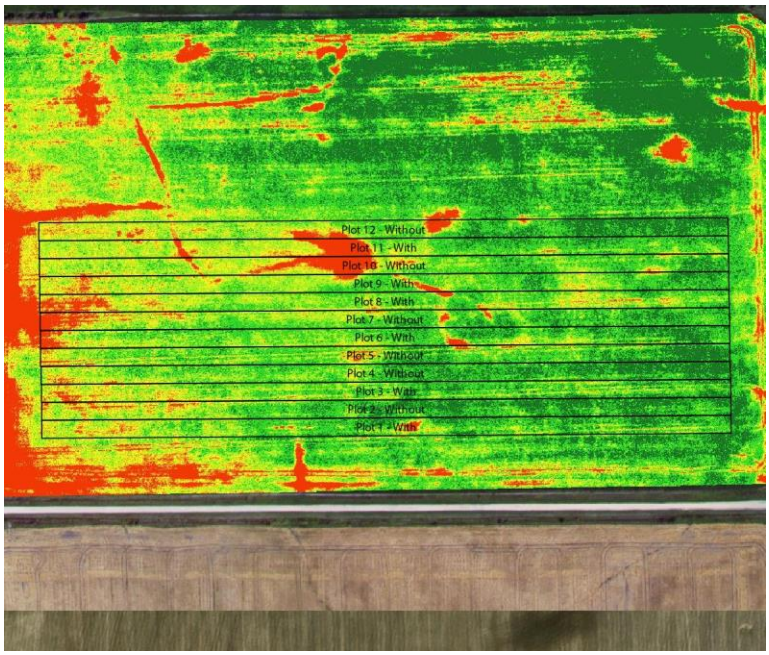
NODULATION COUNT

	Average # of Nodules @ R2
Seed Applied Inoculant	32
No Inoculant	30

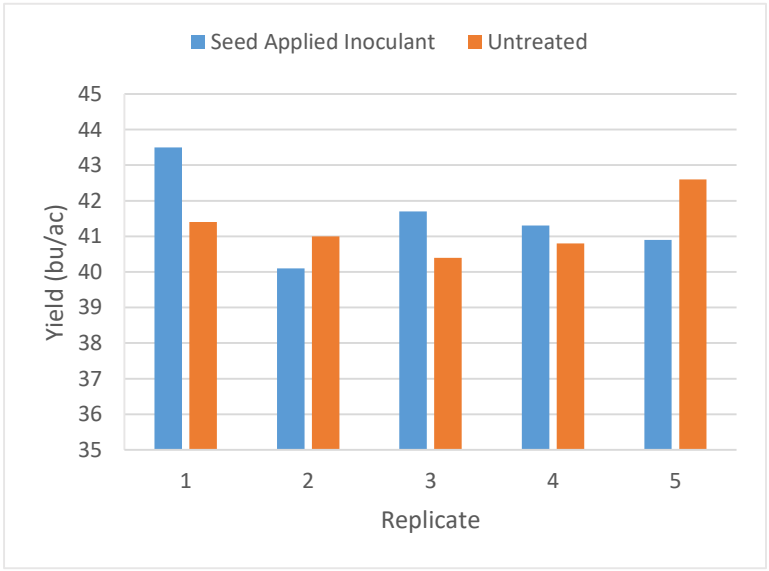
OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	41.5
No Inoculant	41.2
Yield Difference	0.3
P-Value	0.7119
CV	2.5%
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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