

Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2018-S1In08 – R.M. of St. Andrews

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. Andrews
Previous Crop	Soybeans
Soil Description	Clay
Tillage	Conventional
Planting Date	May 16, 2018
Variety	LS 005R24
Row Spacing	10"
Seeding Rate	175,000 seeds/ac
Plant Stand @ V1	146,000 plants/ac
# of Years since Soy	1 year
# of Prev. Soy Crops	2017, 2015, >3x in past
Harvest Date	October 19, 2018

SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
30 lbs/ac	7.7	0.70	1.1%

PRECIPITATION†

	May	June	July	Aug
Rainfall	47	90	90	77
Normal	54	92	66	63

† Growing season precipitation (mm)

NODULATION COUNT

Average # of Nodules @ R2

Seed Applied Inoculant	27
No Inoculant	24

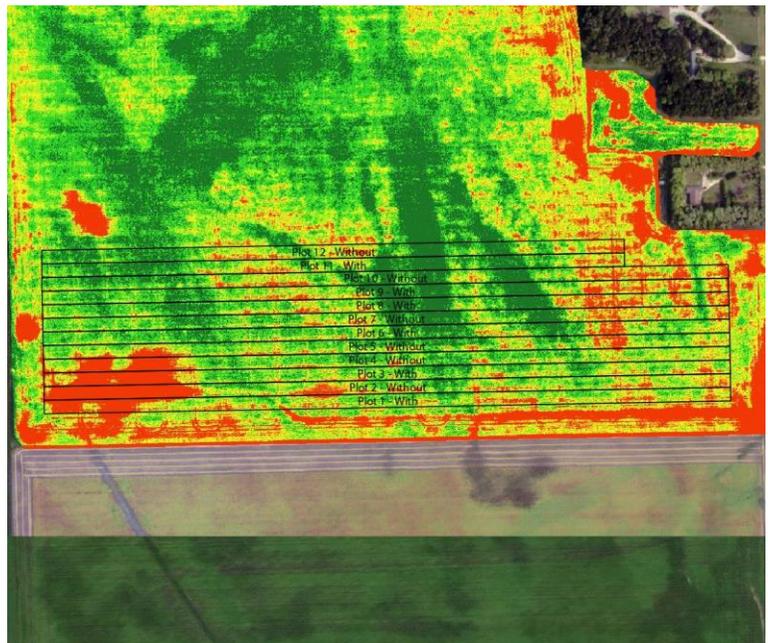
OVERALL YIELD

Mean (bu/ac)

Seed Applied Inoculant	38.2
No Inoculant	38.4
Yield Difference	-0.2
P-Value	0.6549
CV	1.9%
Significance	No

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.

NDVI FIELD IMAGE – AUGUST 13, 2018



STRIP YIELD

