

Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2018-S1In03 – 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	Oats
Soil Description	Clay
Tillage	Conventional
Planting Date	May 14, 2018
Variety	LS Mistral
Row Spacing	10"
Seeding Rate	190,000 seeds/ac
Plant Stand @ V1	166,000 plants/ac
# of Years since Soy	2 years
# of Prev. Soy Crops	2016, >3x in past
Harvest Date	October 22, 2018

SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
38 lbs/ac	8.0	1.29	7.8%

PRECIPITATION†

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

† Growing season precipitation (mm)

NODULATION COUNT

Average # of Nodules @ R2

Seed Applied Inoculant	23
No Inoculant	25

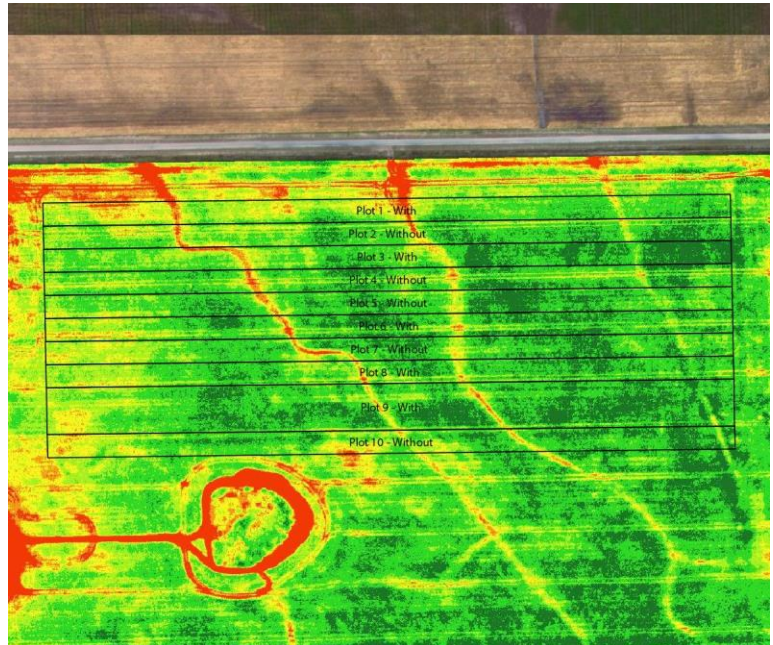
OVERALL YIELD

Mean (bu/ac)

Seed Applied Inoculant	40.6
No Inoculant	40.9
Yield Difference	-0.3
P-Value	0.7277
CV	3.6%
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

