

Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2017-S1In09 – 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	Clayey Lacustrine
Tillage	Disc 1x
Planting Date	May 8, 2017
Variety	NSC Gladstone RR2Y
Row Spacing	10"
Seeding Rate	140,000 seeds/ac
Plant Stand @ V1	148,000 plants/ac
# of Years since Soy	2016 – last year
# of Prev. Soy Crops	3 previous soybean crops
Harvest Date	September 30, 2017

SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
32 lbs/ac	8.2	0.64	6.4

PRECIPITATION[†]

	May	June	July	Aug
Rainfall	22.5	48.8	72.2	38.3
Normal	54.7	92.4	81.9	75.0

[†] Growing season precipitation (mm)

NODULATION COUNT

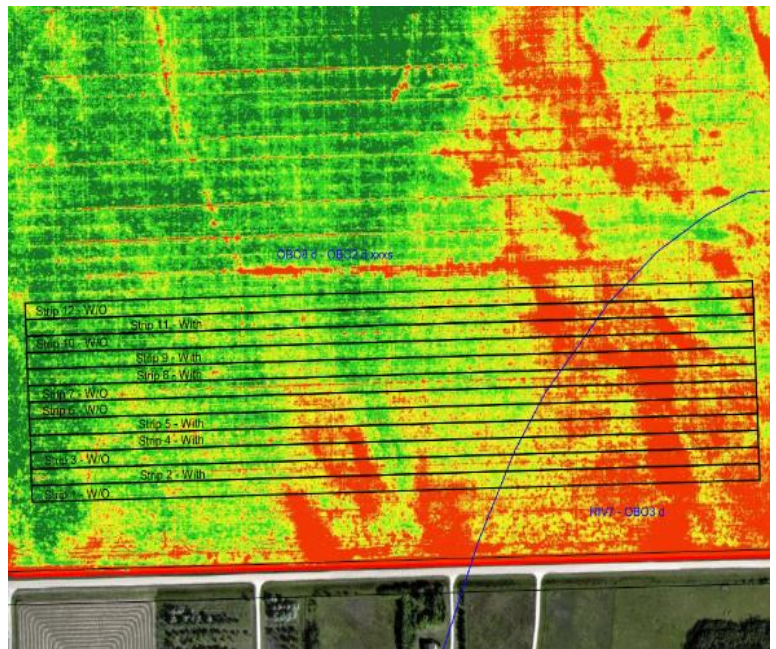
	Average # of Nodules @ R2
Seed Applied Inoculant	65
No Inoculant	59

OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	34.0
No Inoculant	34.0
Yield Difference	0.0
P-Value	0.9871
CV	3.5%
Significance	No

Summary: There was no significant difference between seed applied inoculant and no inoculant applied to soybeans. The previous crop was soybeans, and there was a history of three previous soybean crops on this field. Nodulation was high for both treated and untreated strips.

FIELD IMAGE



STRIP YIELD

