

Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2017-S1In04 – R.M. of Grey

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	Grey
Previous Crop	Soybeans
Soil Description	Clayey Lacustrine
Tillage	Zero Tillage
Planting Date	May 12, 2017
Variety	23-60 RY
Row Spacing	20"
Seeding Rate	164,000 seeds/ac
Plant Stand @ V1	153,000 plants/ac
# of Years since Soy	2016 – last Year
# of Prev. Soy Crops	>3 previous soybean crop
Harvest Date	September 9, 2017

SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
89 lbs/ac	6.9	0.84	0.8

PRECIPITATION[†]

	May	June	July	Aug
Rainfall	28.3	70.8	23.9	14.1
Normal	57.5	84.1	76.5	74.5

[†] Growing season precipitation (mm)

NODULATION COUNT

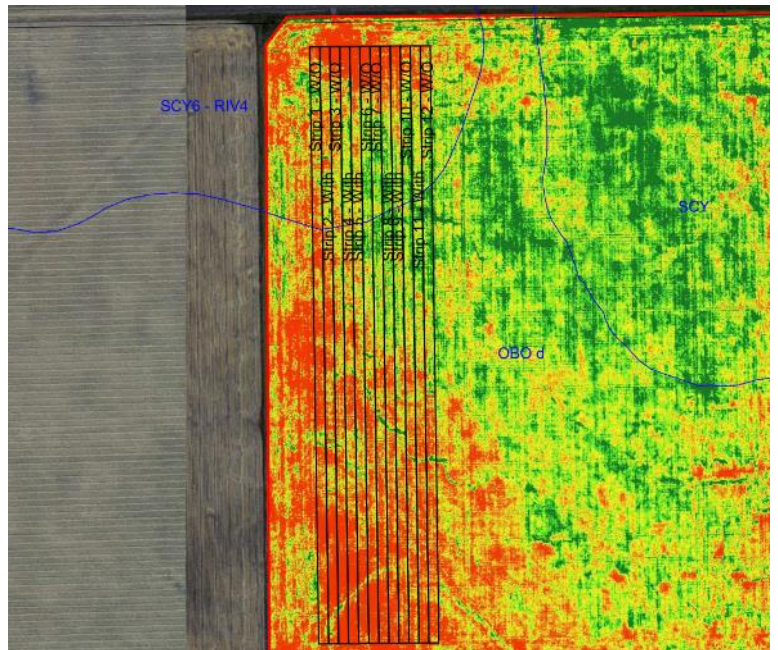
	Average # of Nodules @ R2
Seed Applied Inoculant	21
No Inoculant	16

OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	37.3
No Inoculant	37.0
Yield Difference	0.3
P-Value	0.3357
CV	1.6%
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 more than three previous soybean crops on this field. Nodulation was high for both treated and untreated strips.

FIELD IMAGE



STRIP YIELD

