

Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2017-S1In01 – 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	Soybeans
Soil Description	Clayey Lacustrine
Tillage	Deep Tillage 1x
Planting Date	May 8, 2017
Variety	24-10 RY
Row Spacing	10"
Seeding Rate	180,000 seeds/ac
Plant Stand @ V1	158,000 plants/ac
# of Years since Soy	2016 – last year
# of Prev. Soy Crops	4 previous soybean crops
Harvest Date	October 7, 2017

SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
41 lbs/ac	7.1	0.49	0.5

PRECIPITATION[†]

	May	June	July	Aug
Rainfall	22.4	51.3	74.8	42.3
Normal	55.0	87.5	87.1	76.3

[†] Growing season precipitation (mm)

NODULATION COUNT

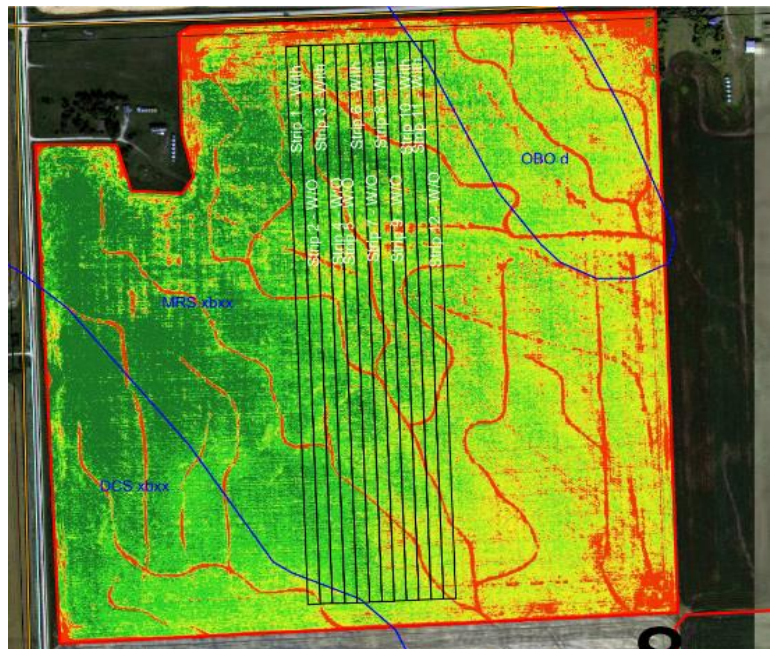
	Average # of Nodules @ R2
Seed Applied Inoculant	26
No Inoculant	28

OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	38.7
No Inoculant	39.3
Yield Difference	-0.6
P-Value	0.0619
CV	1.5%
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 four previous soybean crops on this field. Nodulation was high for both treated and untreated strips.

FIELD IMAGE



STRIP YIELD

