

Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2016-S1In03 – R.M. of Taché

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 3 previous soybean crops.

TRIAL INFORMATION

Treatment	Seed Applied Inoculant
Rural Municipality	Taché
Previous Crop	Soybeans
Soil Description	Clayey Lacustrine
Tillage	Conventional
Planting Date	May 20, 2016
Variety	25-10 RY
Row Spacing	20"
Seeding Rate	175,000 seeds/ac
Plant Stand @ V1	149,000 plants/ac
# of Years since Soy	2015 – last year
# of Prev. Soy Crops	4 previous soybean crops
Harvest Date	October 3, 2016

SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
75 lbs/ac	6.9	0.9	1.3

PRECIPITATION†

	May	June	July	Aug
Rainfall	45	165	122.5	95
Normal	67.5	100.1	93.2	73.8

† Growing season precipitation (mm)

NODULATION COUNT

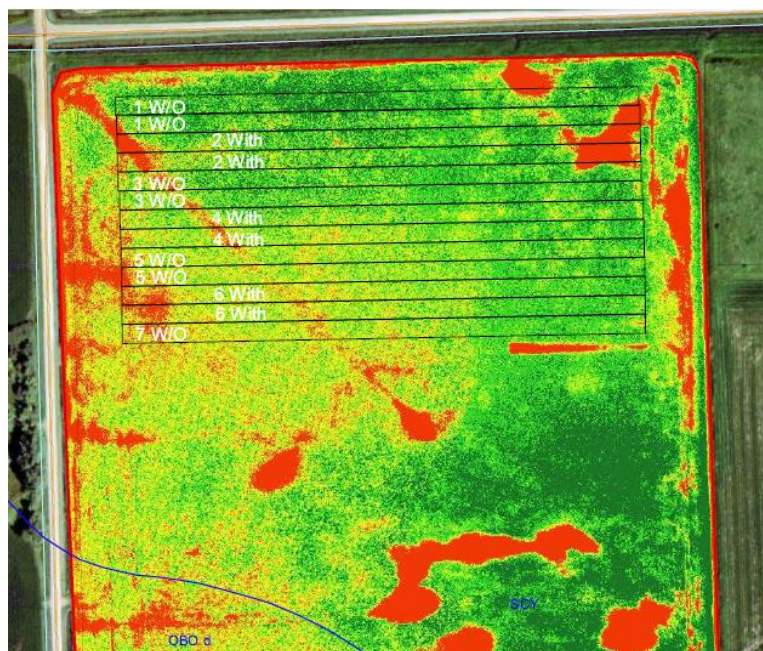
	Average # of Nodules @ R2
Seed Applied Inoculant	58
No Inoculant	70

OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	49.5
No Inoculant	49.9
Yield Difference	-0.4
P-Value	0.418
CV	4.9%
Significance	No

Summary: There was no significant yield 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 grown on this field. Nodulation was high for both treated and untreated strips.

FIELD IMAGE – AUG. 17 (GROWTH STAGE R5.5)



STRIP YIELD

