

Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2016-S1In04 – R.M. of Roland

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	Roland
Previous Crop	Ryegrass
Soil Description	Clayey / Loamy Lacustrine
Tillage	Conventional
Planting Date	May 5, 2016
Variety	24-10 RY
Row Spacing	30"
Seeding Rate	176,000 seeds/ac
Plant Stand @ V1	130,000 plants/ac
# of Years since Soy	2013 – 2 years
# of Prev. Soy Crops	3 previous soybean crops
Harvest Date	September 20, 2016

SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
28 lbs/ac	6.5	0.31	4.7

PRECIPITATION†

	May	June	July	Aug
Rainfall	105	107.5	70	37.5
Normal	67.7	96.4	78.6	74.8

† Growing season precipitation (mm)

NODULATION COUNT

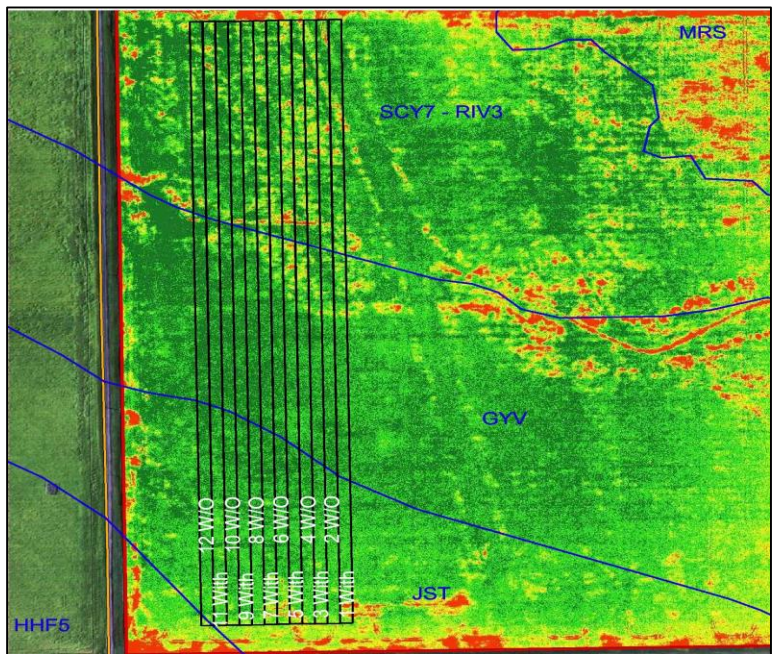
	Average # of Nodules @ R2
Seed Applied Inoculant	42
No Inoculant	40

OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	55.4
No Inoculant	55.6
Yield Difference	-0.2
P-Value	0.6084
CV	2.6%
Significance	No

Summary: There was no significant yield difference between seed-applied inoculant and no inoculant applied to soybeans. There was two years since the last soybean crop was grown in 2013, and there was a history of four previous soybean crops on this field. Nodulation was high for both treated and untreated strips.

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



STRIP YIELD

