

Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2016-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 3 previous soybean crops.

TRIAL INFORMATION

Treatment	Seed Applied Inoculant
Rural Municipality	St Andrews
Previous Crop	Spring Wheat
Soil Description	Loam Lacustrine
Tillage	Disc 1x
Planting Date	May 22, 2016
Variety	23-60 RY
Row Spacing	30"
Seeding Rate	145,000 seeds/ac
Plant Stand @ V1	125,000 plants/ac
# of Years since Soy	2014 – 1 year
# of Prev. Soy Crops	4 previous soybean crops
Harvest Date	October 2, 2016

SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
29 lbs/ac	8.4	0.9	11.3

PRECIPITATION†

	May	June	July	Aug
Rainfall	62.5	147.5	37.5	87.5
Normal	54.1	90	79.5	77

† Growing season precipitation (mm)

NODULATION COUNT

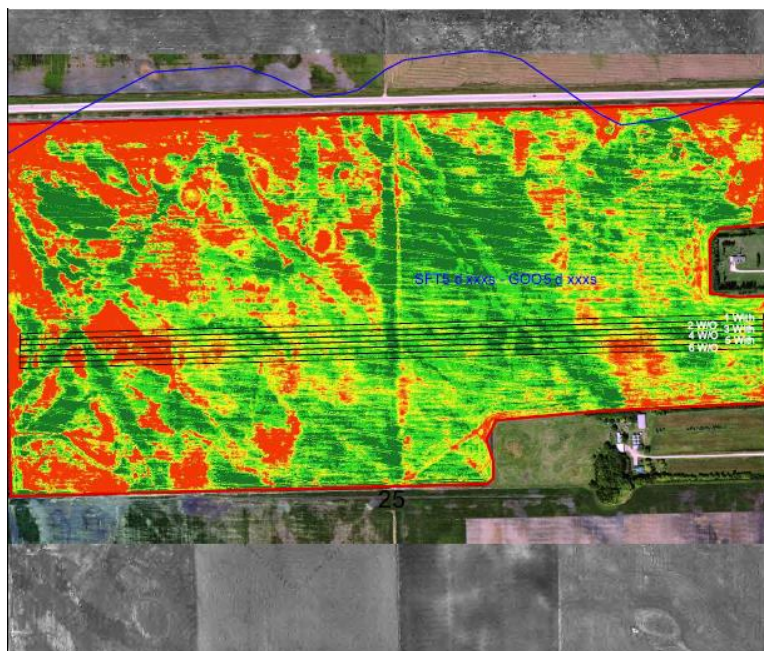
	Average # of Nodules @ R2
Seed Applied Inoculant	48
No Inoculant	42

OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	31.6
No Inoculant	31.1
Yield Difference	0.5
P-Value	0.3456
CV	5.2%
Significance	No

Summary: There was no significant yield difference between seed-applied inoculant and no inoculant applied to soybeans. There was one year since the last soybean crop was grown in 2014, 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

