

Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2016-S1In02 – R.M. of Brokenhead

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	Brokenhead
Previous Crop	Spring Wheat
Soil Description	Loamy Lacustrine
Tillage	Conventional
Planting Date	May 23, 2016
Variety	OAC Prudence
Row Spacing	9"
Seeding Rate	336,000 seeds/ac
Plant Stand @ V1	288,000 plants/ac
# of Years since Soy	2014 – 1 year
# of Prev. Soy Crops	5 previous soybean crops
Harvest Date	November 8, 2016

SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
117 lbs/ac	7.9	0.62	10.9

PRECIPITATION†

	May	June	July	Aug
Rainfall	37.5	125	57.5	92.5
Normal	55	87.5	87.1	76.3

† Growing season precipitation (mm)

NODULATION COUNT

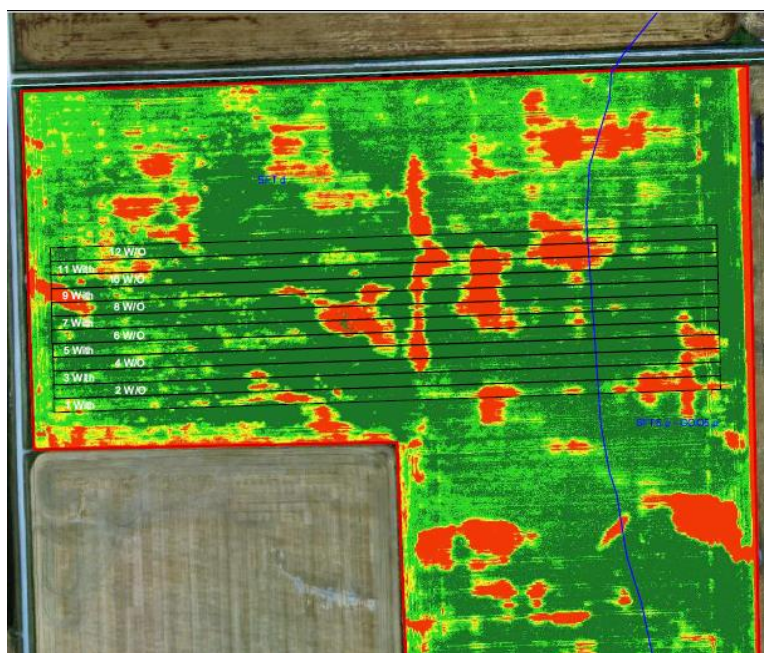
	Average # of Nodules @ R2
Seed Applied Inoculant	67
No Inoculant	54

OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	29.9
No Inoculant	30.9
Yield Difference	-1.0
P-Value	0.211
CV	6.7%
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 five previous soybean crops on this field. Nodulation was high for both the treated and untreated strips.

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



STRIP YIELD

