

Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2016-S1In05 – 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	Winter Wheat
Soil Description	Loam Lacustrine
Tillage	Conventional
Planting Date	May 17, 2016
Variety	P006T78R
Row Spacing	15"
Seeding Rate	185,000 seeds/ac
Plant Stand @ V1	166,000 plants/ac
# of Years since Soy	2013 – 2 years
# of Prev. Soy Crops	3 previous soybean crops
Harvest Date	September 29, 2016

SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
19 lbs/ac	8.1	0.41	1

PRECIPITATION†

	May	June	July	Aug
Rainfall	72.5	70	50	45
Normal	55	87.5	87.1	76.3

† Growing season precipitation (mm)

NODULATION COUNT

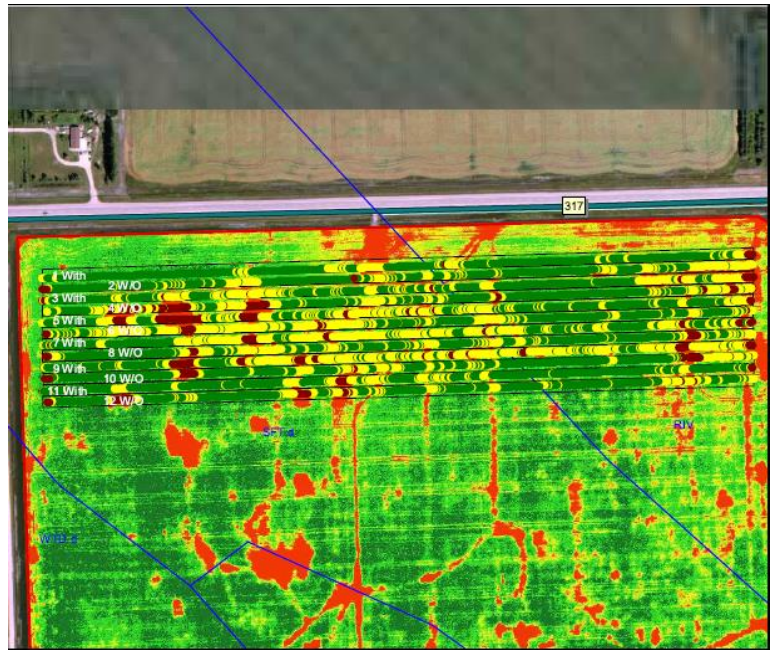
	Average # of Nodules @ R2
Seed Applied Inoculant	34
No Inoculant	39

OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	44.4
No Inoculant	44.5
Yield Difference	-0.1
P-Value	0.8701
CV	5.1%
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 previous soybean crop was grown in 2013, and there was a history of three 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

