

Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2016-S1In07 – R.M. of Dufferin

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	Dufferin
Previous Crop	Winter Wheat
Soil Description	Clayey Lacustrine
Tillage	Conventional
Planting Date	May 16, 2016
Variety	TH 33005R2Y
Row Spacing	20"
Seeding Rate	185,000 seeds/ac
Plant Stand @ V1	160,000 plants/ac
# of Years since Soy	2013 – 2 years
# of Prev. Soy Crops	4 previous soybean crops
Harvest Date	September 29, 2016

SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
38 lbs/ac	7.5	0.68	1.5

PRECIPITATION†

	May	June	July	Aug
Rainfall	70	107.5	52.5	100
Normal	67.7	96.4	78.6	74.8

† Growing season precipitation (mm)

NODULATION COUNT

Average # of Nodules @ R2

Seed Applied Inoculant	69
No Inoculant	94

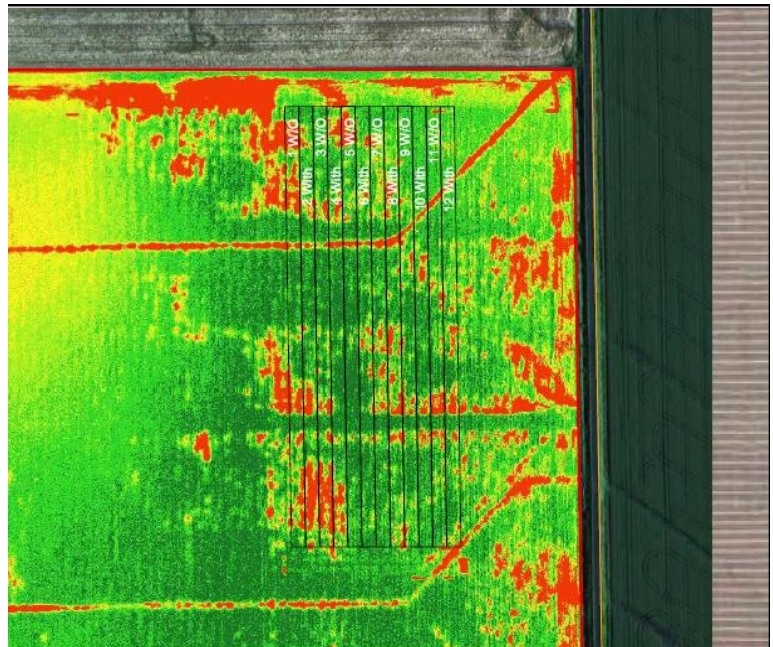
OVERALL YIELD

Mean (bu/ac)

Seed Applied Inoculant	45.9
No Inoculant	45.8
Yield Difference	0.1
P-Value	0.9409
CV	8.2%
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 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

