

Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2017-S1In05 – R.M. of Lac du Bonnet

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 three previous soybean crops.

TRIAL INFORMATION

Treatment	Seed Applied Inoculant
Rural Municipality	Lac du Bonnet
Previous Crop	Spring Wheat
Soil Description	Clayey Lacustrine
Tillage	Chisel Plowed 1x
Planting Date	May 7, 2017
Variety	P006T46R
Row Spacing	7.5"
Seeding Rate	190,000 seeds/ac
Plant Stand @ V1	165,000 plants/ac
# of Years since Soy	2015 – 1 year
# of Prev. Soy Crops	5 previous soybean crops
Harvest Date	September 19, 2017

SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
27 lbs/ac	6.5	0.38	0.7

PRECIPITATION†

	May	June	July	Aug
Rainfall	22.4	51.3	74.8	42.3
Normal	64.5	98.8	89.1	65.3

† Growing season precipitation (mm)

NODULATION COUNT

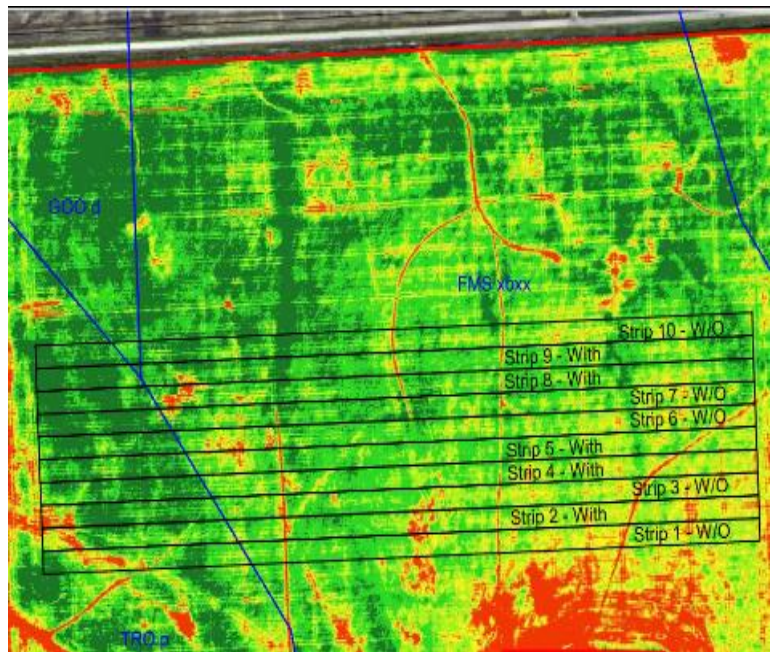
	Average # of Nodules @ R2
Seed Applied Inoculant	39
No Inoculant	36

OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	28.2
No Inoculant	27.5
Yield Difference	0.7
P-Value	0.0694
CV	2.7%
Significance	No

Summary: There was no significant difference between seed applied inoculant and no inoculant applied to soybeans. The previous crop was wheat, and there was a history of five previous soybean crops on this field. Nodulation was high for both treated and untreated strips.

FIELD IMAGE



STRIP YIELD

