

Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2017-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 three previous soybean crops.

TRIAL INFORMATION

Treatment	Seed Applied Inoculant
Rural Municipality	Brokenhead
Previous Crop	Winter Wheat
Soil Description	Loamy Lacustrine
Tillage	Cultivate 1x Joker 1x
Planting Date	May 11, 2017
Variety	LS 003R24N
Row Spacing	10"
Seeding Rate	191,000 seeds/ac
Plant Stand @ V1	195,000 plants/ac
# of Years since Soy	2014 – 2 years
# of Prev. Soy Crops	5 previous soybean crops
Harvest Date	October 5, 2017

SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
50 lbs/ac	8.1	0.45	4.3

PRECIPITATION[†]

	May	June	July	Aug
Rainfall	22.4	51.3	74.8	42.3
Normal	55.0	87.5	87.1	76.3

[†] Growing season precipitation (mm)

NODULATION COUNT

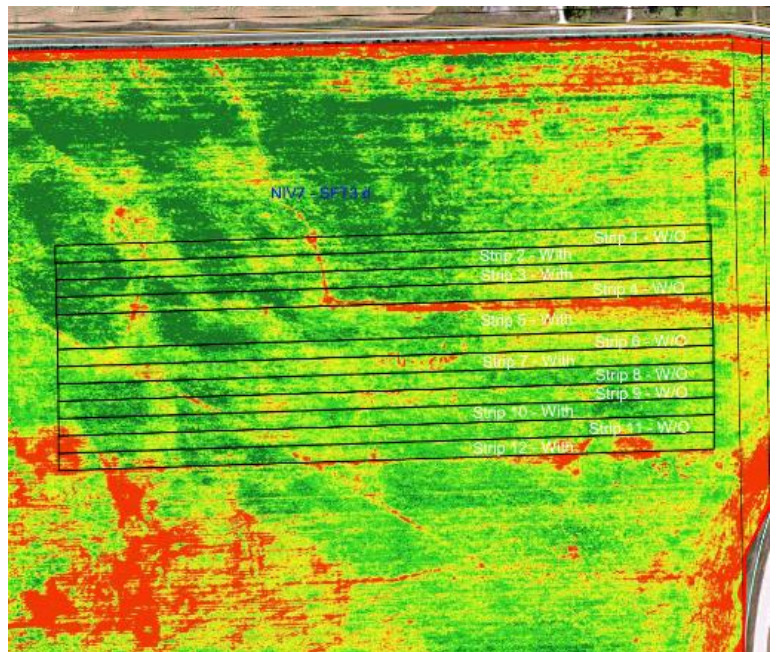
	Average # of Nodules @ R2
Seed Applied Inoculant	34
No Inoculant	28

OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	36.4
No Inoculant	37.6
Yield Difference	-1.2
P-Value	0.2925
CV	4.4%
Significance	No

Summary: There was no significant difference between seed applied inoculant and no inoculant applied to soybeans. The previous crop was winter 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

