

Soybean Inoculant Trial - Seed Applied vs. Seed Applied & In-Furrow Inoculant

Trial ID: 2015-S2In01 – R.M. of Springfield

Objective: Quantify the agronomic and economic impacts of seed applied inoculant (single inoculation) vs. seed applied plus in-furrow inoculant (double inoculation) in soybean fields. The trial is conducted in the Central, Eastern and Interlake regions of Manitoba and requires a minimum history of 2 previous soybean crops.

TRIAL INFORMATION

Treatment	Single vs. Double Inoculation
Rural Municipality	Springfield
Previous Crop	Soybeans
Soil Description	Clayey Lacustrine
Tillage	Cultivate
Planting Date	May 25, 2015
Variety	NSC Gladstone RR2Y
Row Spacing	15"
Seeding Rate	195,000 seeds/ac
Plant Stand @V1	168,000 plants/ac
# of Years since Soy	2014 – last year
# of Prev. Soy Crops	5 previous soybean crops
In-Furrow Inoculant	Liquid 1x rate
Harvest Date	October 17, 2015

SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
58 lbs/ac	7.7	0.7	1.6

PRECIPITATION[†]

	May	June	July	Aug
Rainfall	2.5	65	107.5	155
Normal	55	87.5	87.1	76.3

[†] Growing season precipitation (mm)

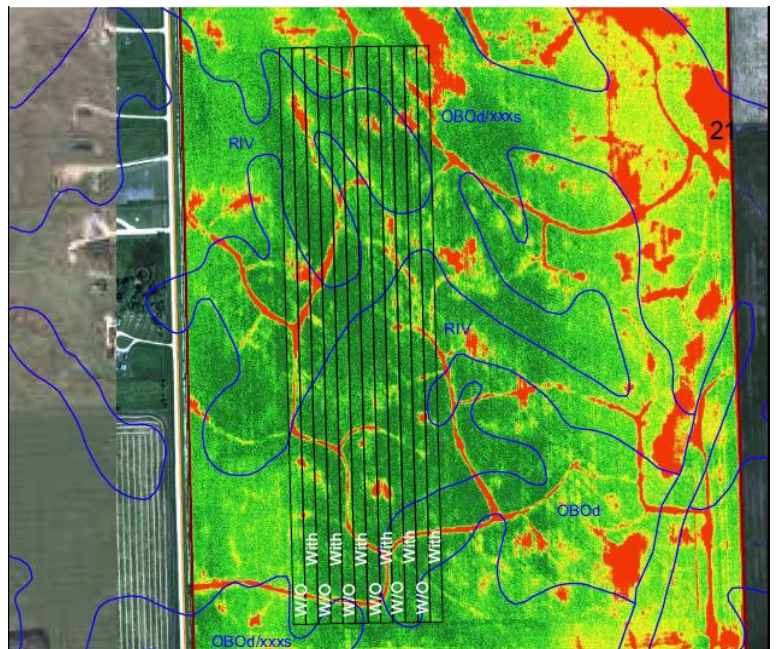
NODULATION COUNT

	Average # of Nodules @ R2
Double Inoculation	10-20 Nodules
Single Inoculation	10-20 Nodules

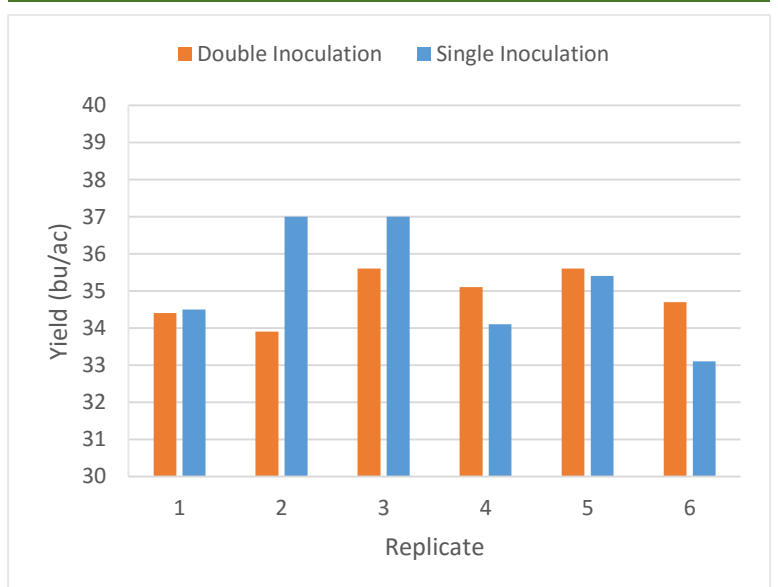
OVERALL YIELD

	Mean (bu/ac)
Double Inoculation	34.9
Single Inoculation	35.2
Yield Difference	-0.3
P-Value	0.6855
CV	3.4%
Significance	No

NDVI FIELD IMAGE – AUG. 19 (GROWTH STAGE R6)



STRIP YIELD



Summary: There was no significant yield difference between seed applied inoculant (single inoculation) and seed applied plus in-furrow inoculant (double inoculation) applied to soybeans. The previous crop was soybeans, and there was a history of five previous soybean crops grown on this field. There was 10-20 nodules per plant for both inoculation treatments.