

Soybean Inoculant Trial – Seed Applied vs. No Inoculant

Trial ID: 2016-S1In06 – R.M. of Rhineland

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	Rhineland
Previous Crop	Winter Wheat
Soil Description	Clayey Lacustrine
Tillage	Conventional
Planting Date	May 12, 2016
Variety	Akras R2
Row Spacing	30"
Seeding Rate	165,000 seeds/ac
Plant Stand @ V1	158,000 plants/ac
# of Years since Soy	2013 – 2 years
# of Prev. Soy Crops	5 previous soybean crops
Harvest Date	September 21, 2016

SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
47 lbs/ac	7.6	0.51	0.9

PRECIPITATION†

	May	June	July	Aug
Rainfall	40	122.5	137.5	100
Normal	68.8	101.5	75	67.9

† Growing season precipitation (mm)

NODULATION COUNT

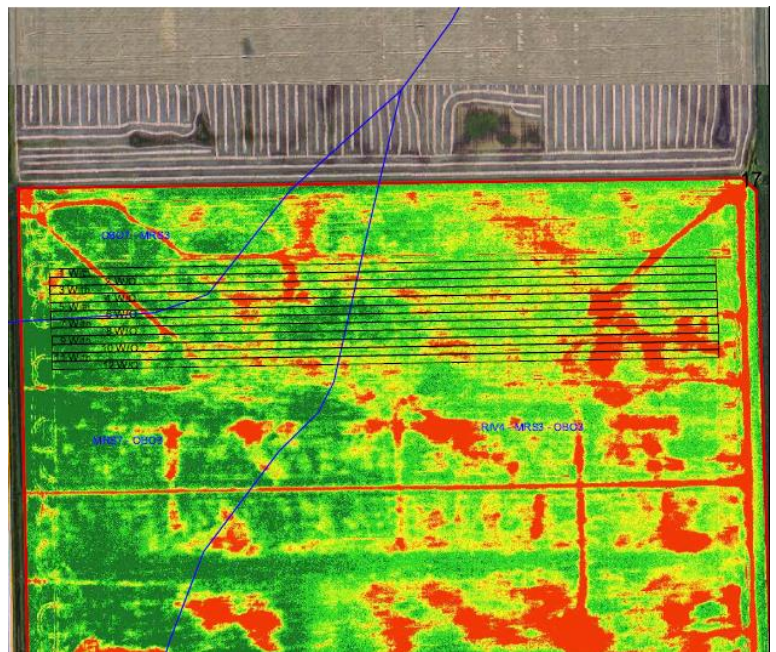
	Average # of Nodules @ R2
Seed Applied Inoculant	50
No Inoculant	43

OVERALL YIELD

	Mean (bu/ac)
Seed Applied Inoculant	45.0
No Inoculant	45.0
Yield Difference	0.0
P-Value	0.9817
CV	4.7%
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 five 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

