

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

Trial ID: 2013-S2In10 – R.M. of Rockwood

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 was conducted in the Central, Eastern and Interlake regions of Manitoba and required a minimum history of 2 previous soybean crops.

TRIAL INFORMATION

Treatment	Single vs. Double Inoculation
Rural Municipality	Rockwood
Previous Crop	Soybeans
Soil Description	Sandy Loam Lacustrine
Tillage	Conventional
Planting Date	May 21, 2013
Variety	23-10RY
Row Spacing	7"
Seeding Rate	220,000 seeds/ac
Plant Stand @ V1	208,000 plants/ac
# of Years since Soy	2012 – last year
# of Prev. Soy Crops	1 previous soybean crop
Harvest Date	September 30, 2013

SOIL PROPERTIES

N 0-24"	pH	Salts 0-6"	CCE%
20 lbs/ac	8.2	0.3	6.6

PRECIPITATION†

	May – August
Cumulative Rainfall	323 mm
Historical Rainfall	301 mm

† Growing season precipitation (mm)

NODULATION COUNT

	Average # of Nodules @ R2
Double Inoculation	>20 nodules
Single Inoculation	>20 nodules

OVERALL YIELD

	Mean (bu/ac)
Double Inoculation	46.6
Single Inoculation	45.2
Yield Difference	1.4
P-Value	0.0167
CV	3.0%
Significance	Yes

Summary: There was a significant yield difference of 1.4 bu/ac 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 only one previous soybean crop grown on this field. This trial does not meet the requirement of at least 2 previous soybean crops. There was 10-20 nodules per plant for both inoculation treatments.

MPSG would like to thank Tone Ag Consulting for conducting the research

FIELD IMAGE



STRIP YIELD

