

## 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	
<b>Rural Municipality</b>	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	

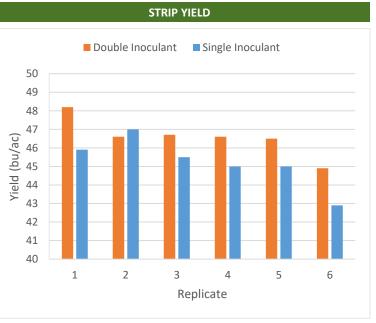
SOIL PROPERTIES				
N 0-24"	r i pH	<sup>I</sup> Salts 0-6"	CCE%	
20 lbs/ac	8.2	0.3	6.6	

PRECIPITATION			
	May – August		
Cumulative Rainfall	323 mm		
<b>Historical Rainfall</b>	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	

## 

**FIELD IMAGE** 



**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

## Pulse Soybean

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