

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

Trial ID: 2015-S2In02 - R.M. of Morris

**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					
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Treatment	Single vs. Double Inoculation				
Rural Municipality	Morris				
Previous Crop	Soybeans				
Soil Description	Clayey Lacustrine				
Tillage	Conventional				
Planting Date	May 12, 2015				
Variety	P008T70R				
Row Spacing	22"				
Seeding Rate	170,000 seeds/ac				
Plant Stand @V1	156,000 plants/ac				
# of Years since Soy	2014 – last year				
# of Prev. Soy Crops	2 previous soybean crops				
In-Furrow Inoculant	Liquid 1X rate				
Harvest Date	September 14, 2015				

SOIL PROPERTIES				
N 0-24"	pH	Salts 0-6"	CCE%	
61 lbs/ac	6.4	l 0.9	0.2	

PRECIPITATION <sup>†</sup>								
	-	May		June	I	July		Aug
Rainfall		75		75	I	147.5		102.5
Normal	- -	67.6		101.8	7	85.6	ī	83.9

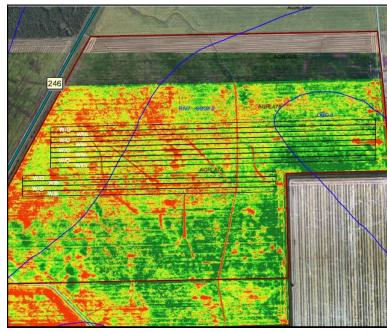
† Growing season precipitation (mm)

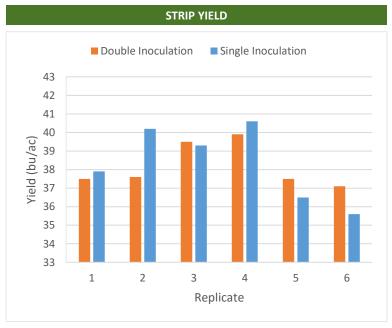
## **NODULATION COUNT**

	Average # of Nodules @ KZ
<b>Double Inoculation</b>	> 20 nodules
Single Inoculation	> 20 nodules

OVERALL YIELD			
	Mean (bu/ac)		
<b>Double Inoculation</b>	38.2		
Single Inoculation	38.4		
Yield Difference	-0.2		
P-Value	0.7898		
CV	4.2%		
Significance	No		

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





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

