

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

Trial ID: 2015-S2In09 - R.M. of Dufferin

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	Dufferin			
Previous Crop	Spring Wheat			
Soil Description	Clayey / Loamy Lacustrine			
Tillage	Conventional			
Planting Date	May 12, 2015			
Variety	PS 0074 R2			
Row Spacing	30"			
Seeding Rate	183,000 plants/ac			
Plant Stand @V1	131,000 plants/ac			
# of Years since Soy	2013 – 2 years			
# of Prev. Soy Crops	2 previous soybean crops			
In-Furrow Inoculant	Liquid 1x rate			
Harvest Date	September 26, 2015			

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SOIL PROPERTIES						
N 0-24"	pH	Salts 0-6"	CCE%			
37 lbs/ac	7.7	0.9	3.6			

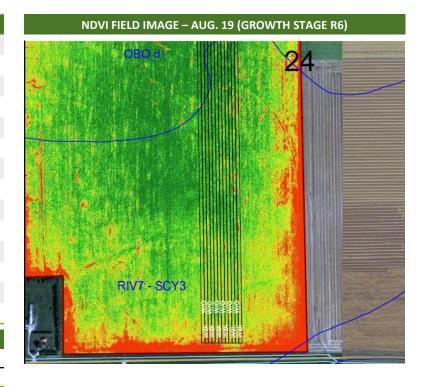
PRECIPITATION [†]												
		May		 	June		l	July		l	Aug	
Rainfall		37.5		! !	30			60			72.5	
Normal	-1-	67.7		i –	96.4	7	_	78.6	7		74.8	

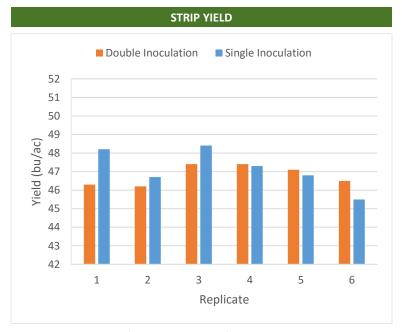
† Growing season precipitation (mm)

NODULATION COUNT

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

OVERALL YIELD				
	Mean (bu/ac)			
Double Inoculation	46.8			
Single Inoculation	47.2			
Yield Difference	-0.4			
P-Value	0.4634			
CV	1.8%			
Significance	No			





Summary: There was no significant yield difference between seed applied inoculant (single inoculation) and seed applied plus infurrow inoculant (double inoculation) applied to soybeans. There was two years since the last soybean crop was grown in 2013, and there was a history of two previous soybean crops on this field. There was more than 20 nodules per plant for both inoculation treatments.

MANITOBA

Pulse Soybean