

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

Trial ID: 2015-S2In04 - R.M. of Springfield

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	Springfield			
Previous Crop	Spring Wheat			
Soil Description	Clayey Lacustrine			
Tillage	Conventional			
Planting Date	May 27, 2015			
Variety	NSC Richer RR2Y			
Row Spacing	9.8″			
Seeding Rate	210,000 seeds/ac			
Plant Stand @V1	150,000 plants/ac			
# of Years since Soy	2013 – 2 years			
# of Prev. Soy Crops	3 previous soybean crops			
In-Furrow Inoculant	Granular 7 lbs			
Harvest Date	December 4, 2015			

SOIL PROPERTIES						
N 0-24″	і і рН	Salts 0-6"	CCE%			
61 lbs/ac	7.8	1.7	1.6			

PRECIPITATION						
	i	May		June	i July	Aug
Rainfall	1	5	1	27.5	85	215
Normal	1	55	. –	87.5	87.1	76.3
+ Growing season precipitation (mm)						

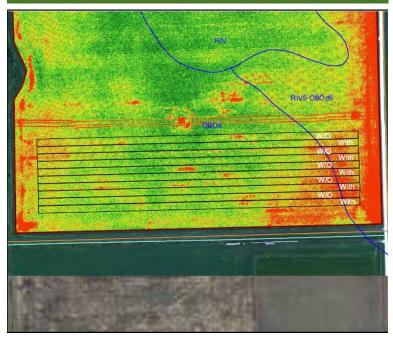
NODULATION COUNT

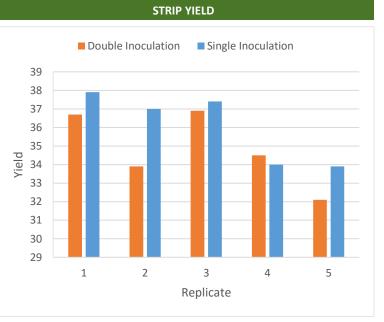
	Average # of Nodules @ R2
Double Inoculation	> 20 nodules
Single Inoculation	> 20 nodules

OVERALL YIELD

	Mean (bu/ac)
Double Inoculation	34.8
Single Inoculation	36.0
Yield Difference	-1.2
P-Value	0.1144
CV	5.6%
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. There was two years since the last soybean crop was grown in 2013, and there was a history of three previous soybean crops on this field. There was more than 20 nodules per plant for both inoculation treatments.



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