

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

Trial ID: 2015-S2In05 – R.M. of Montcalm

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	Montcalm	
Previous Crop	Canola	
Soil Description	Clayey Lacustrine	
Tillage	Conventional	
Planting Date	May 27, 2015	
Variety	25-10 RY	
Row Spacing	30"	
Seeding Rate	166,000 seeds/ac	
Plant Stand @V1	158,000 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 29, 2015	

SOIL PROPERTIES				
N 0-24″	і і рН	Salts 0-6"	CCE%	
105 lbs/ac	6.3	0.6	0.2	

PRECIPITATION				
	i May	June	July	Aug
Rainfall	10	102.5	122.5	140
Normal	67.6	101.8	85.6	83.9
+ Growing season precipitation (mm)				

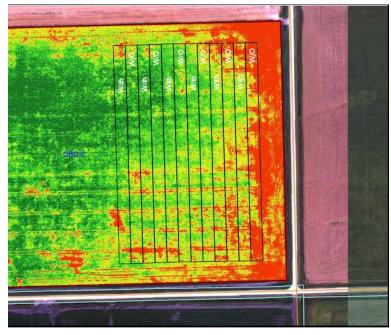
NODULATION COUNT

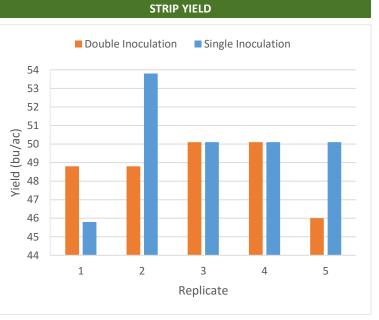
	Average # of Nodules @ R2
Double Inoculation	10-20 nodules
Single Inoculation	10-20 nodules
Single Inoculation	10-20 nodules

OVERALL YIELD

	Mean (bu/ac)
Double Inoculation	48.8
Single Inoculation	50.0
Yield Difference	-1.2
P-Value	0.4540
CV	4.6%
Significance	Νο

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 two previous soybean crops on this field. There was 10-20 nodules per plant for both inoculation treatments.



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