

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

Trial ID: 2018-S2In07 – R.M. of Dauphin

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. This trial requires a minimum field history of 2 previous soybean crops.

TRIAL INFORMATION			
Treatment	Single vs. Double Inoculation		
Rural Municipality	Dauphin		
Previous Crop	Wheat		
Soil Description	Fine Sandy Loam		
Tillage	Conventional		
Planting Date	May 22, 2018		
Variety	Notus R2		
Row Spacing	10"		
Seeding Rate	218,000 seeds/ac		
Plant Stand @V1	178,000 plants/ac		
# of Years since Soy	2 years		
# of Prev. Soy Crops	2016, 2012		
In-Furrow Inoculant	5 lbs/ac Cell-Tech (granular)		
Harvest Date	October 20, 2018		

SOIL PROPERTIES					
N 0-24"	г рН	Salts 0-6"	CCE%		
53 lbs/ac	8.1	0.29	3.2%		

PRECIPITATION				
	i May	June	i July	I Aug
Rainfall	38	104	91	3
Normal	54	1––––– 1 87	73	63
+ Growing season precipitation (mm)				

NUDULATION COUNT			
Average # of Nodules @ R2			
Double Inoculation	39		
Single Inoculation	38		

OVERALL YIELD

	Mean (bu/ac)
Double Inoculation	41.5
Single Inoculation	41.9
Yield Difference	- 0.4
P-Value	0.5252
CV	2.7%
Significance	Νο

NDVI FIELD IMAGE – AUG 9, 2018 (GROWTH STAGE R6)



STRIP YIELD



Summary: There was no significant yield difference between seed applied inoculant (single inoculant) and seed applied plus infurrow inoculant (double inoculation) applied to soybeans. There was good nodulation for both single and double inoculation treatments. This trial was established on a field with a history of at least two previous, well nodulated soybean crops.



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