Soybean Biological Trial

Trial ID: 2020-SB03 – R.M. of North Cypress-Langford

Objective: Quantify the agronomic and economic impacts of biological products for soybean production

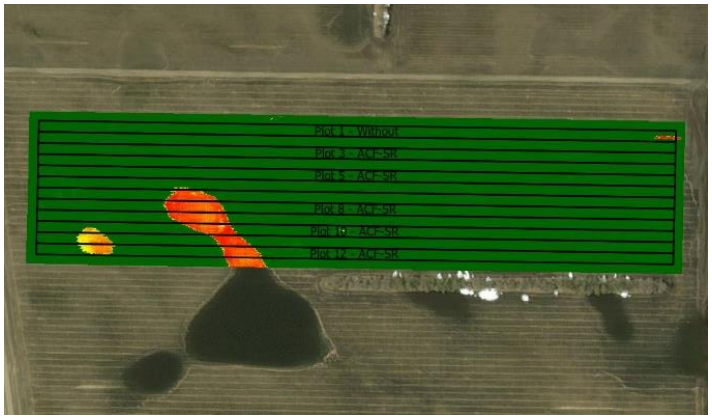
Summary: There was no significant yield difference between soybeans with and without Lignijoule. As a result, profit in the treated area decreased by the cost of product/ac, compared to profit from the untreated area.

Trial Information ǂ

Treatment	Lignijoule In-furrow
Soil Texture	Clay Loam
Previous Crop	Wheat
Tillage	Conventional
Seeding Date	May 27
Variety	S007-Y4
Seeding Rate	204 000 seeds/ac
Row Spacing	10”
Plant Stand @ V3	197 000 plants/ac
Harvest Date	October 1

ǂ Lignijoule is intended to increase photosynthesis

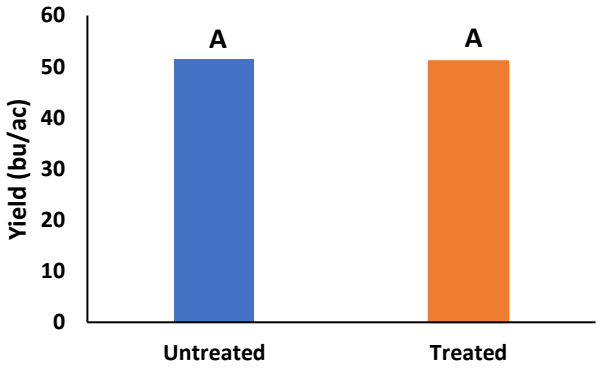
NDVI Field Image August 15



Precipitation (mm)

	May	June	July	August
Normal	51.2	72.8	74.4	66.2
Rainfall	8.7	94.5	62.5	69.9

Yield by Treatment



Overall Yield & Economics

	Mean (bu/ac)	Cost ǂ	Change in Profit/ac ǂ ǂ
Treated	51.1	$5/ac	-$5/ac
Untreated	51.5		
Yield Difference	-0.4		
P-Value	0.4421		
CV	1.6%		
Significance	**No**	**Economic**	**No**

ǂ Based on an estimated cost for biological products

ǂ ǂ Because yields were not significantly different, there is no increased income to offset the cost of the product. Profit/ac declines by the cost of the product application.

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