Soybean Fungicide Trial

Trial ID: 2020-SF01 – R.M. of De Salaberry

Objective: Quantify the agronomic and economic impacts of a single foliar fungicide application in soybeans

Summary: Septoria brown spot was prevalent throughout the trial; frogeye and phytophthora were also present. There was no significant yield difference between soybeans with and without an application of Cotegra. Due to the lack of yield response, there was a decrease in profit/ac in the treated area of the trial, equivalent to the cost of the fungicide application.

Trial Information

Treatment	Cotegra
Application Timing	R2
Application Date	July 9
Application Rate	280 ml/ac
Application Method	Broadcast
Soil Texture	Clay
Previous Crop	Corn
Tillage	Zero Till
Seeding Date	May 22
Variety	TH 87003 R2YX
Seeding Rate	167 500
Row Spacing	15”
Plant Stand @ R5	127 000 plants/ac
Harvest Date	September 20

Precipitation (mm)

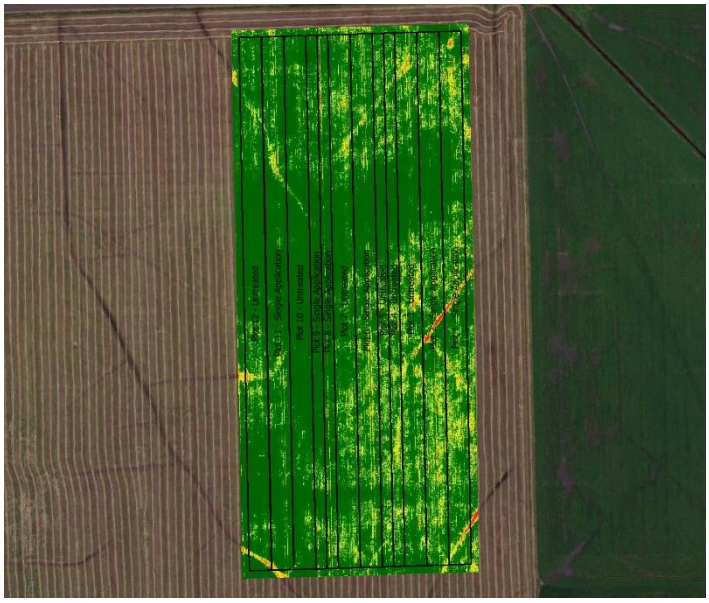
	May	June	July	August
Normal	52.6	94.7	69.5	51.7
Rainfall	14.3	113.5	93.7	68.4

Summary of Disease Rating (R4)ǂ

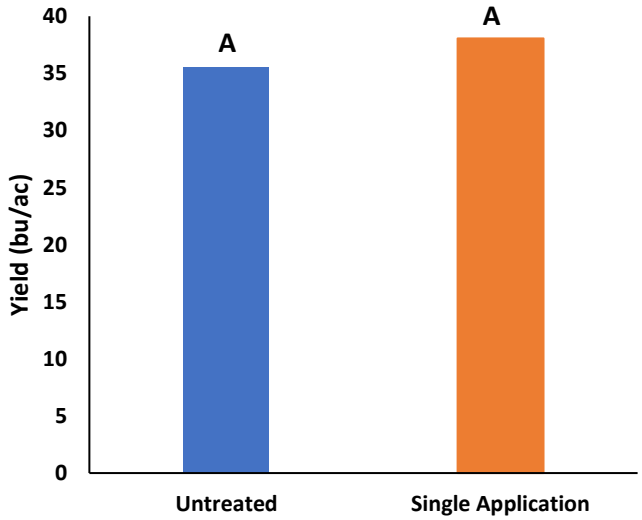
	Frogeye		Septoria Brown Spot		Phytophthora	
	UN	SGL	UN	SGL	UN	SGL
Incidence	22%	12%	92%	92%	23%	23%
Severity	n/a	n/a	1.76	1.69	n/a	n/a

ǂ SGL=Single application; Frogeye (presence/absence), septoria brown Spot 0 – 5 rating scale, phytophthora (presence/absence); bacterial blight present throughout trial; downy mildew and anthracnose present at low levels

NDVI Field Image August 19



Yield by Treatment



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Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit/ac ††
Single Application	38.1	$15/ac	-$15/ac
Untreated	35.6		
Yield Difference	2.5		
P-Value	0.3873		
CV	17.1%		
Significance	**No**	**Economic**	**No**

† Based on an estimated cost for a single application of soybean fungicide

†† Because yields were not significantly different, there was no increased income with fungicide application to offset the cost of the product

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