

Soybean Fungicide Trial

Trial ID: 2020-SF02 – R.M. of Ste. Anne

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 a single 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 10
Application Rate	280 ml/ac
Application Method	Broadcast
Soil Texture	Clay
Previous Crop	Oats
Tillage	Conventional
Seeding Date	May 20
Variety	NSC Richer RR2Y
Seeding Rate	170 000 seeds/ac
Row Spacing	22"
Plant Stand @ R4	143 000 plants/ac
Harvest Date	September 23

Precipitation (mm)

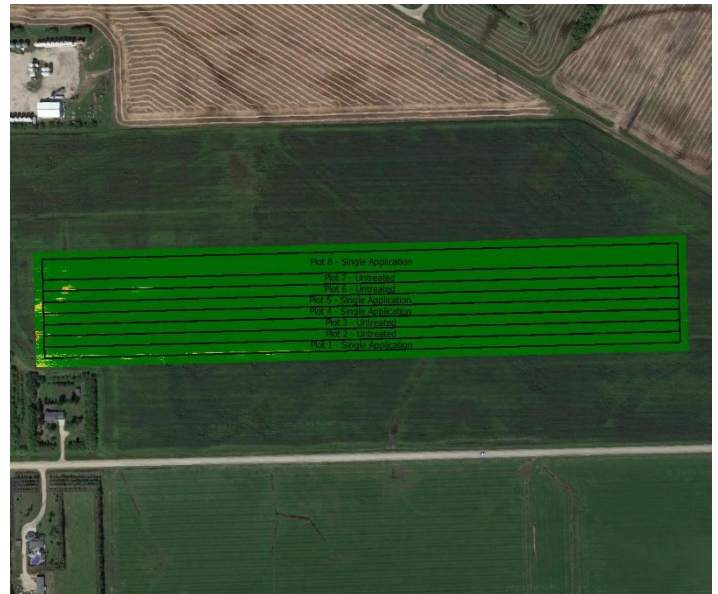
	May	June	July	August
Normal	58.1	91.3	80.1	66.1
Rainfall	14.2	60	91.5	81.7

Summary of Disease Rating (R4) †

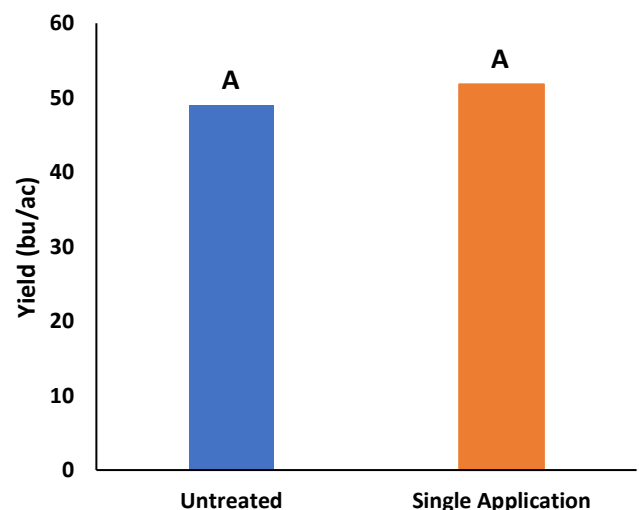
	Frogeye		Septoria Brown Spot		Phytophthora	
	UN	SGL	UN	SGL	UN	SGL
Incidence	0%	8%	100%	100%	3%	5%
Severity	n/a	n/a	1.95	1.78	n/a	n/a

† SGL=Single application; Frogeye (presence/absence), septoria brown spot 0 – 5 rating scale, phytophthora (presence/absence); bacterial blight present throughout the trial

NDVI Field Image August 17



Yield by Treatment





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Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit/ac ††
Single Application	51.8	\$15/ac	-\$15/ac
Untreated	48.9		
Yield Difference	2.9		
P-Value	0.2776		
CV	5.6%		
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