

Soybean Fungicide Trial

Trial ID: 2020-SF07 – R.M. of Richot

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 Dyax. 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	Dyax
Application Timing	R3
Application Date	July 20
Application Rate	160 ml/ac
Application Method	Broadcast
Soil Texture	Clay
Previous Crop	Wheat
Tillage	Conventional
Seeding Date	May 18
Variety	TH 88005R2XN
Seeding Rate	175 000 seeds/ac
Row Spacing	20"
Plant Stand @ R5	150 000 plants/ac
Harvest Date	September 22

Precipitation (mm)

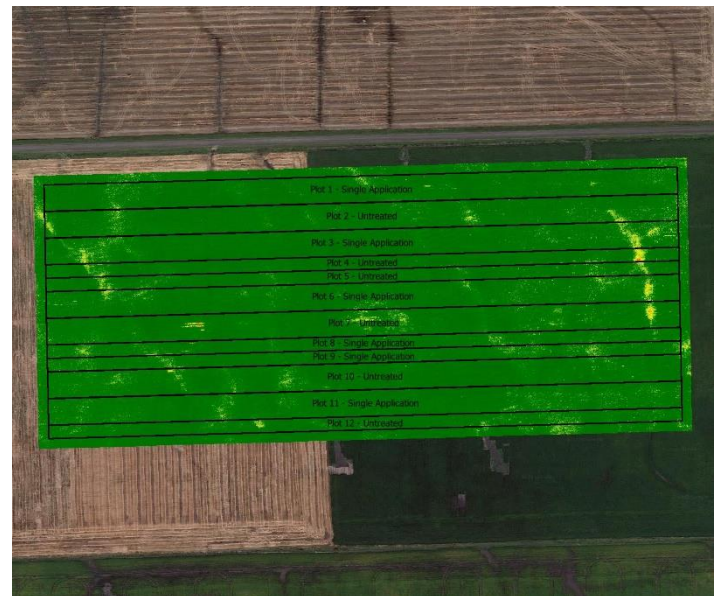
	May	June	July	August
Normal	52.6	88	69.5	75.8
Rainfall	14.3	49.4	43.9	88.7

Summary of Disease Rating (R4) †

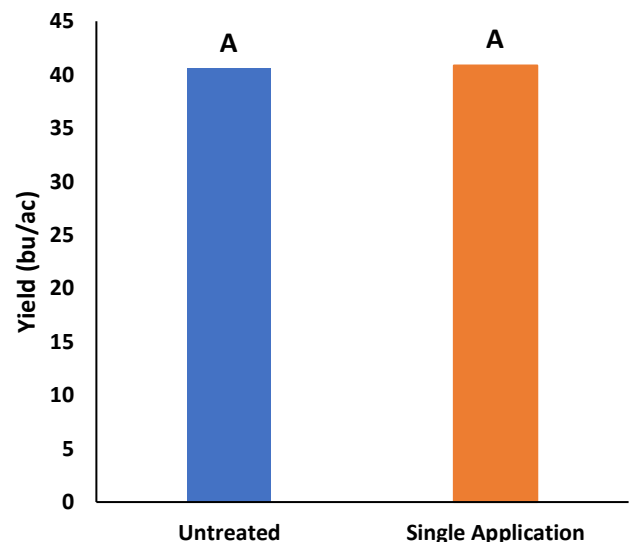
	Frogeye		Septoria Brown Spot		Phytophthora	
	UN	SGL	UN	SGL	UN	SGL
Incidence	12%	8%	92%	93%	22%	30%
Severity	n/a	n/a	2.09	2.11	n/a	n/a

† 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 19



Yield by Treatment





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Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit/ac ††
Single Application	40.9	\$15/ac	-\$15/ac
Untreated	40.6		
Yield Difference	0.3		
P-Value	0.3598		
CV	1.1%		
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