

Soybean Fungicide Trial

Trial ID: 2020-SF05 – R.M. of Rockwood

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

Summary: Septoria brown spot was prevalent throughout the trial. 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	R2
Application Date	July 16
Application Rate	160 ml/ac
Application Method	Broadcast
Soil Texture	Clay Loam / Loam
Previous Crop	Oats
Tillage	Conventional
Seeding Date	May 26
Variety	Sunna R2X
Seeding Rate	164 000 seeds/ac
Row Spacing	15"
Plant Stand @ R5	134 000 plants/ac
Harvest Date	September 22

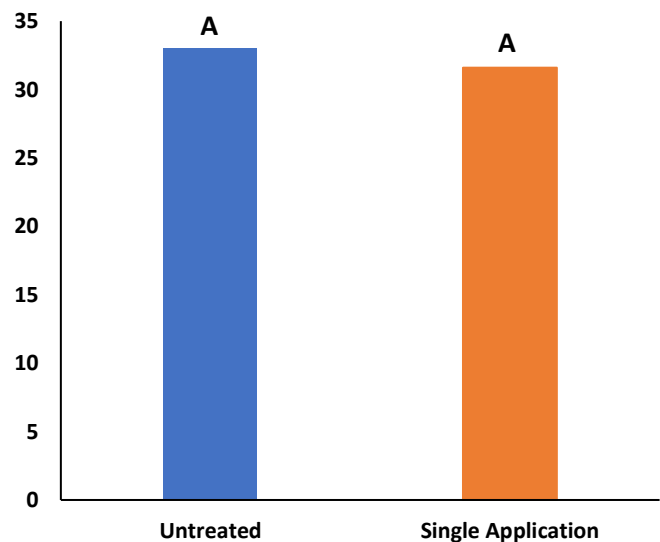
NDVI Field Image August 20



Precipitation (mm)

	May	June	July	August
Normal	53.8	92	66.4	63.3
Rainfall	11.4	60.4	40.5	79.5

Yield by Treatment



Summary of Disease Rating (R4) †

	Frogeye		Septoria Brown Spot		White Mold	
	UN	SGL	UN	SGL	UN	SGL
Incidence	0%	0%	85%	82%	0%	0%
Severity	n/a	n/a	1.3	1.2	0.0	0.0

† SGL = -Single application; Frogeye (presence/absence), Septoria Brown Spot 0 – 5 rating scale, White Mold 0 – 3 rating scale; bacterial blight present throughout the trial



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Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit/ac ††
Single Application	31.6	\$15/ac	-\$15/ac
Untreated	33.0		
Yield Difference	-1.4		
P-Value	0.2888		
CV	6.5%		
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