Soybean Fungicide Trial

Trial ID: 2020-SF04 – R.M. of Brokenhead

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 downy mildew 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	R2
Application Date	July 16
Application Rate	120 ml/ac
Application Method	Broadcast
Soil Texture	Clay Loam
Previous Crop	Wheat
Tillage	Conventional
Seeding Date	May 18
Variety	LS 0036RR
Seeding Rate	160 000 seeds/ac
Row Spacing	10”
Plant Stand @ R5	192 000 plants/ac
Harvest Date	September 25

Precipitation (mm)

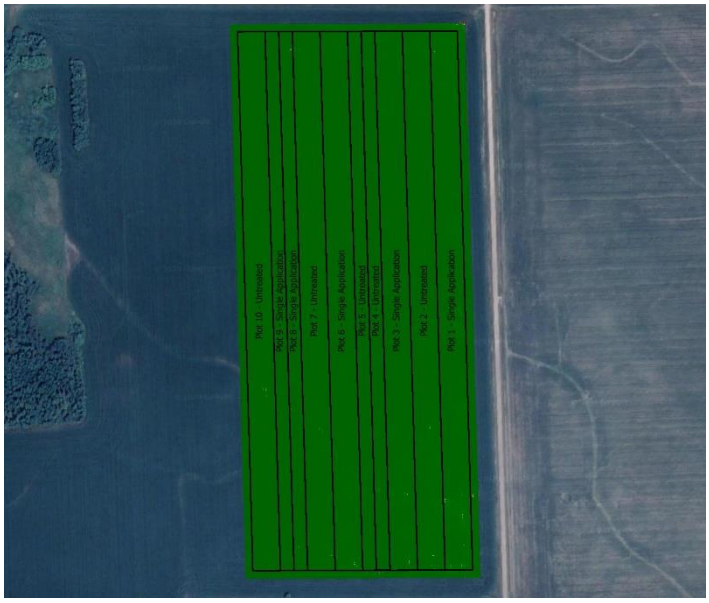
	May	June	July	August
Normal	54	89.9	73.4	72.6
Rainfall	11.3	74.9	49.8	110.7

Summary of Disease Rating (R4)ǂ

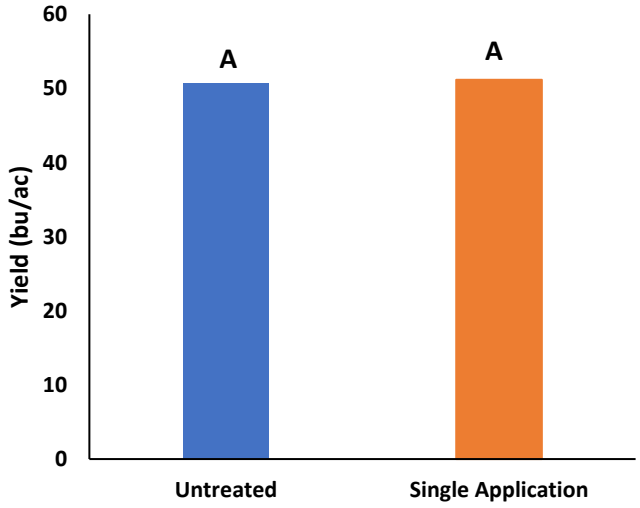
	Frogeye		Septoria Brown Spot		Downy Mildew	
	UN	SGL	UN	SGL	UN	SGL
Incidence	10%	12%	100%	86%	24%	8%
Severity	n/a	n/a	1.88	1.34	n/a	n/a

ǂ SGL=Single application; Frogeye (presence/absence), septoria brown spot 0 – 5 rating scale, downy mildew (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	51.2	$15/ac	-$15/ac
Untreated	50.6		
Yield Difference	0.6		
P-Value	0.1335		
CV	2.3%		
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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