Soybean Fungicide Trial

Trial ID: 2024-SF02 – R.M. of Pipestone

Objective: Quantify the agronomic and economic impacts of a single foliar fungicide application vs. none in soybeans.

Summary: There was no significant yield difference between soybeans with and without a single application of Delaro. As a result, profit/ac in the treated area of the trial decreased by the cost/ac of fungicide. Septoria brown spot was prevalent throughout the trial; frogeye leafspot and bacterial blight were also present. White mould was not present. Disease pressure was similar between treatments.

Trial Information

Treatment	Delaro vs Untreated
Application Timing	R1
Application Date	July 12
Application Rate	30 ac/jog
Application Method	Broadcast
Soil Texture	Loamy Clay Loam
Previous Crop	Oats
Tillage	Zero Till
Seeding Date	May 16
Variety	Young R2X
Seeding Rate	175,000 seeds/ac
Row Spacing	12"
Plant Stand @ R4	149,000 plants/ac
Harvest Date	September 25

Precipitation (mm)

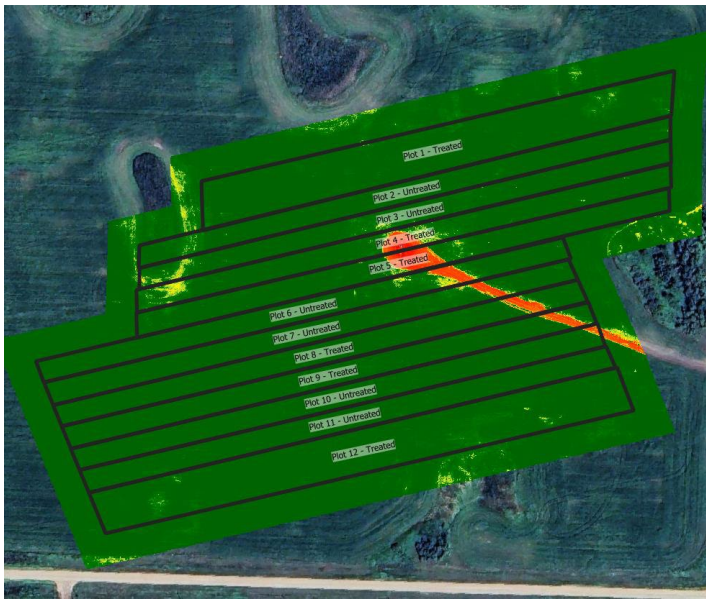
	May	June	July	Aug	Total
Rainfall	96.6	120.5	21	73.4	311.5
Normal	53	75.2	66.1	57.8	252.1
% Norm	182%	160%	32%	127%	124%

Summary of Disease Rating (R3)ǂ

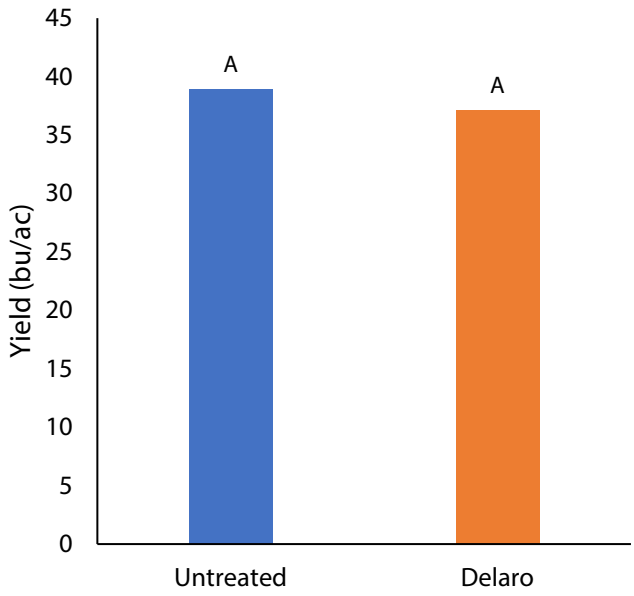
	Incidence (% plants infected)				
	Septoria B.S.	Frog Eye	Stem Canker	White Mould	Bacterial Blight
Single	58% (0.6)	5%	0%	0%	100%
None	47% (0.5)	5%	0%	0%	100%

ǂ Septoria brown spot severity, listed in brackets, was rated on a 0-5 scale.

NDVI Field Image August 9



Yield by Treatment



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T 204 745.6488
www.manitobapulse.ca

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Overall Yield & Economics

	Mean (bu/ac)	Cost ǂ	Change in Profit ǂǂ
Single Application	37.1	$20/ac	-$20/ac
Untreated	38.9		
Yield Difference	-1.8		
P-Value	0.329		
CV	7.6%		
Significance	**No**	**Economic**	**No**

ǂ Based on an estimated cost for a single application of soybean fungicide; does not include application cost.

ǂ ǂ Because yields were not significantly different, there is no increased income to offset the cost of the fungicide. Profit/ac declined by the cost of the fungicide application.

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