

Soybean Fungicide Trial

Trial ID: 2023-SF02 – R.M. of Dauphin

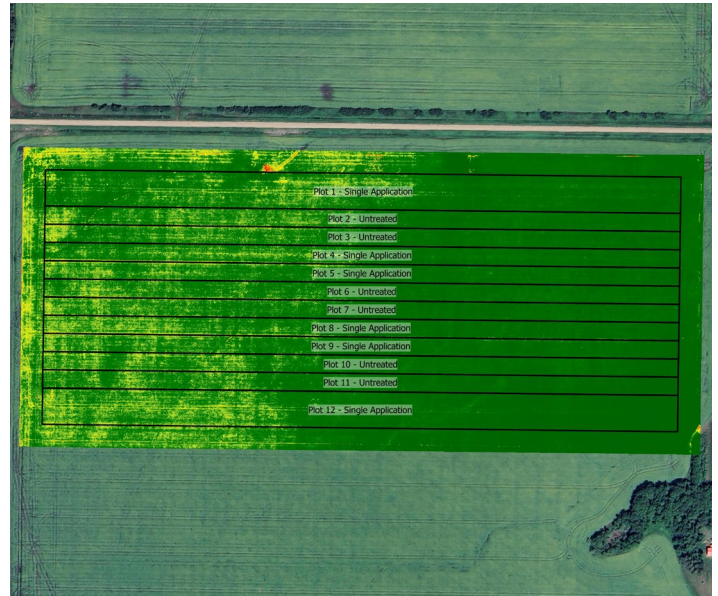
Objective: Quantify the agronomic and economic impacts of a single foliar fungicide application vs. none in soybeans.

Summary: 5% fewer plants were infected with Northern Stem Canker with a fungicide application. There was no significant yield difference between soybeans with and without a single application of Veltyma. As a result, profit/ac in the treated area of the trial decreased by the cost/ac of fungicide.

Trial Information

Treatment	Veltyma
Application Timing	R1
Application Date	July 6
Application Rate	203 mL/ac
Application Method	Broadcast
Soil Texture	Clay
Previous Crop	Canola
Tillage	Zero Till
Seeding Date	May 18
Variety	Amirani R2
Seeding Rate	195 000 seeds/ac
Row Spacing	10"
Plant Stand @ R3	159 500 plants/ac
Harvest Date	September 2

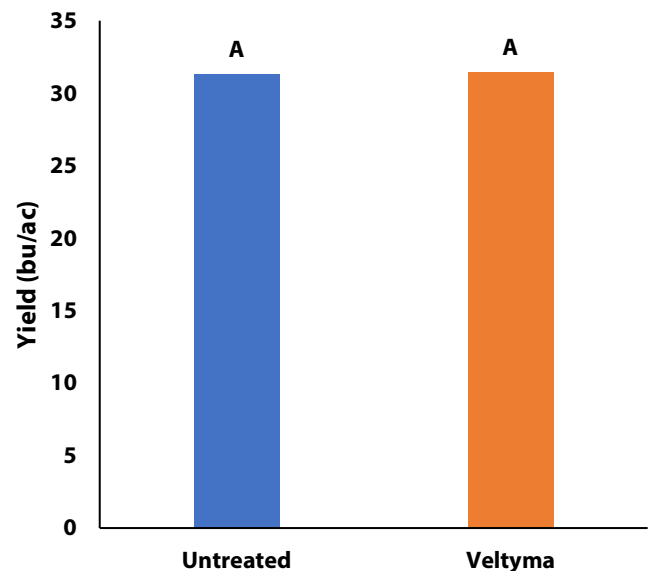
NDVI Field Image August 7



Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	88.2	24.5	13	63.7	190
Normal	54.3	86.7	73	63.3	278
% Norm	162%	28%	18%	101%	68%

Yield by Treatment



Summary of Disease Rating (R3) †

	Incidence (% plants infected)				
	Septoria B.S.	Frog Eye	Stem Canker	White Mould	Bacterial Blight
Single	98% (1.9)	33%	8%	0%	98%
None	97% (1.9)	35%	13%	0%	97%

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



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Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit ††
Single Application	31.4	\$23/ac	-\$23/ac
Untreated	31.3		
Yield Difference	0.1		
P-Value	0.8121		
CV	3.21%		
Significance	No	Economic	No

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

†† 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.