

Soybean Fungicide Trial

Trial ID: 2024-SF03 – R.M. of Grassland

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/jug
Application Method	Broadcast
Soil Texture	Loamy Clay Loam
Previous Crop	Wheat
Tillage	Conventional Till
Seeding Date	May 20
Variety	SI 00323XT
Seeding Rate	180,000 seeds/ac
Row Spacing	22"
Plant Stand @ R3	159,000 plants/ac
Harvest Date	October 2

Precipitation (mm)

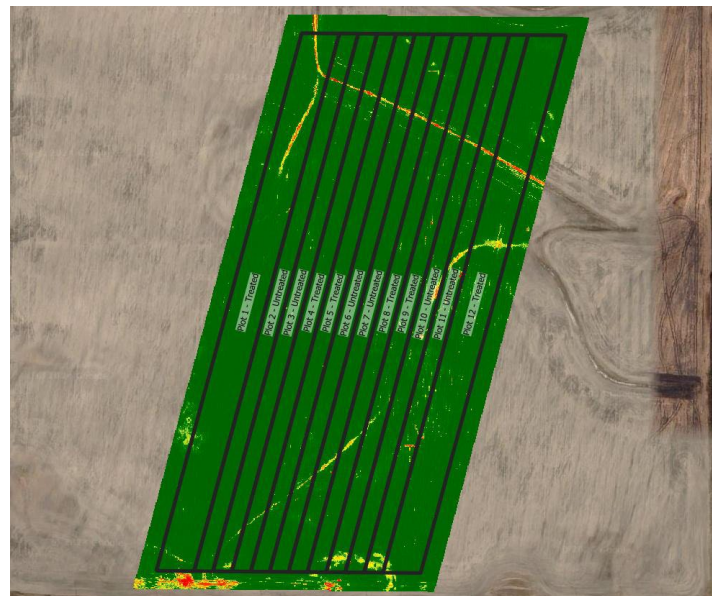
	May	June	July	Aug	Total
Rainfall	93.2	90.1	23.2	40.2	246.7
Normal	46.9	83.7	65.2	57.6	253.4
% Norm	199%	108%	36%	70%	97%

Summary of Disease Rating (R3) †

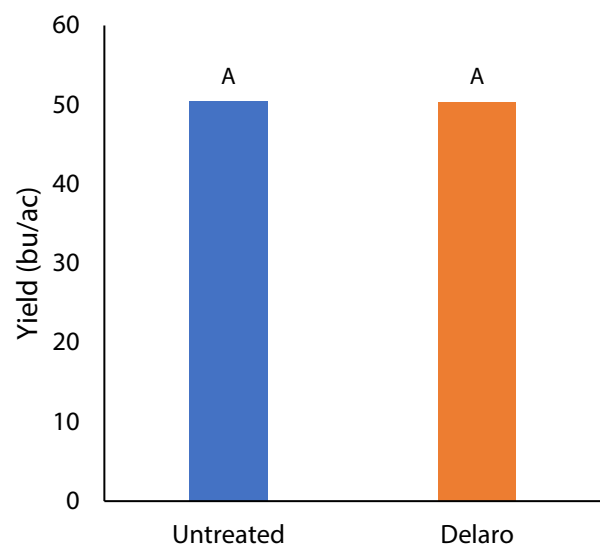
	Incidence (% plants infected)				
	Septoria B.S.	Frog Eye	Stem Canker	White Mould	Bacterial Blight
Single	98% (1.3)	10%	0%	0%	100%
None	92% (1.2)	10%	0%	0%	100%

† 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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Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit ††
Single Application	50.3	\$20/ac	-\$20/ac
Untreated	50.4		
Yield Difference	0.1		
P-Value	0.961		
CV	3.4%		
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.