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Soybean Fungicide Trial

Trial ID: 2024-SF01 – R.M. of Morris

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; 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	Clay
Previous Crop	Wheat
Tillage	Conventional Till
Seeding Date	May 13
Variety	SI 001XTN
Seeding Rate	127,000 seeds/ac
Row Spacing	30"
Plant Stand @ R3	112,000 plants/ac
Harvest Date	September 26

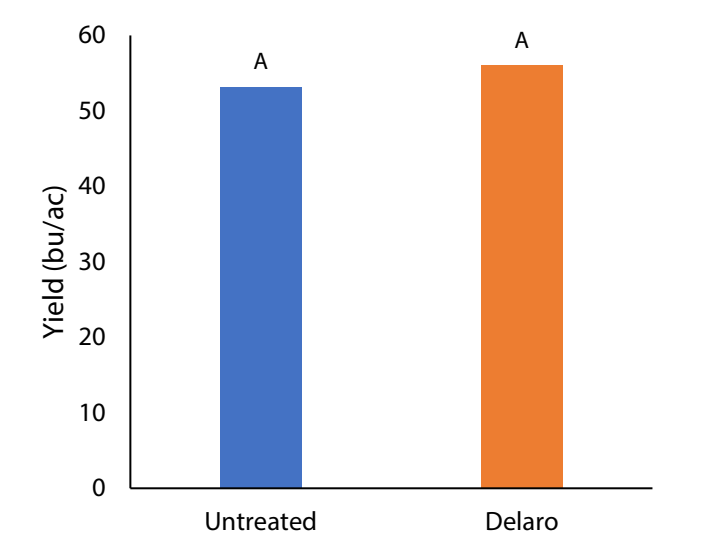
NDVI Field Image August 10



Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	122	90.6	60.4	60.6	333.6
Normal	53.6	86.4	71.9	65.4	277.3
% Norm	228%	105%	84%	93%	120%

Yield by Treatment



Summary of Disease Rating (R3) †

	Incidence (% plants infected)				
	Septoria B.S.	Frog Eye	Stem Canker	White Mould	Bacterial Blight
Single	95% (1.05)	0%	0%	0%	0%
None	85% (1)	0%	0%	0%	0%

† 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	56.0	\$20/ac	-\$20/ac
Untreated	53.1		
Yield Difference	2.9		
P-Value	0.169		
CV	4.1%		
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.