

Dry Bean Fungicide Trial

Trial ID: 2020-DBF01 – R.M. of Rhineland

Objective: Quantify the agronomic and economic impacts of a single foliar fungicide application in dry beans

Summary: There was a high incidence of foliar and stem anthracnose throughout the trial, however, there was no significant yield difference between pinto beans with and without a single application of Cotegra. 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	Cotegra
Application Timing	R1
Application Date	Jul 17
Application Rate	280 ml/ac
Application Method	Broadcast
Soil Texture	Clay
Previous Crop	Corn
Seeding Date	May 25
Variety	Lumen Pinto Bean
Seeding Rate	88 000 seeds/ac
Row Spacing	30"
Plant Stand @ R4	50 000 plants/ac
Harvest Date	September 19

Precipitation (mm)

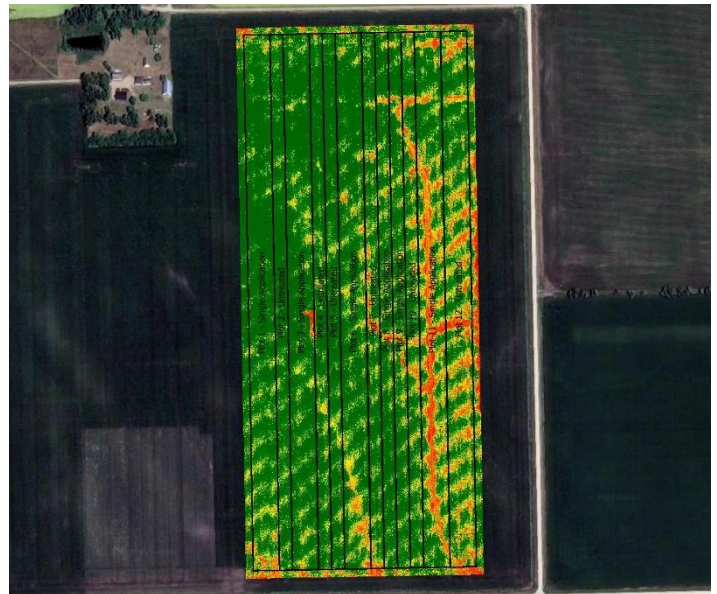
	May	June	July	August
Normal	56.4	85.2	75.4	65.5
Rainfall	10.8	100.2	81.4	111.3

Summary of Disease Rating (R3) †

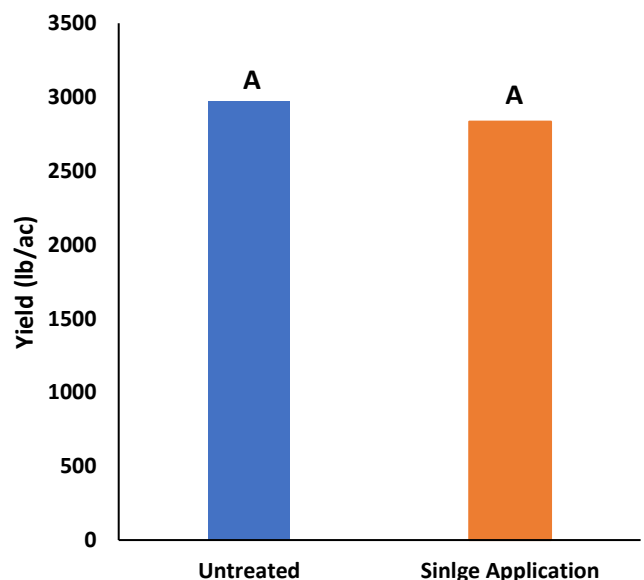
	Foliar Anthracnose		Stem Anthracnose		White Mould	
	UN	SGL	UN	SGL	UN	SGL
Incidence	100%	93%	97%	97%	0%	7%
Severity	n/a	n/a	n/a	n/a	0.0	0.1

† SGL=single application; Foliar anthracnose (presence/absence), stem anthracnose (presence/absence), white mould 0 – 5 rating scale; bacterial blight present throughout the trial.

Field NDVI Image August 17



Yield by Treatment





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Overall Yield & Economics

	Mean (lb/ac)	Cost †	Change in Profit/ac ††
Single Application	2834	\$30/ac	-\$30/ac
Untreated	2969		
Yield Difference	-135		
P-Value	0.5431		
CV	8.4%		
Significance	No	Economic	No

† Based on MB Agriculture 2020 Cost of Production Guidelines; cost represents product only, 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 declines by the cost of the fungicide application.