

Dry Bean Fungicide Trial

Trial ID: 2025-DBF05 – R.M. of Rhineland

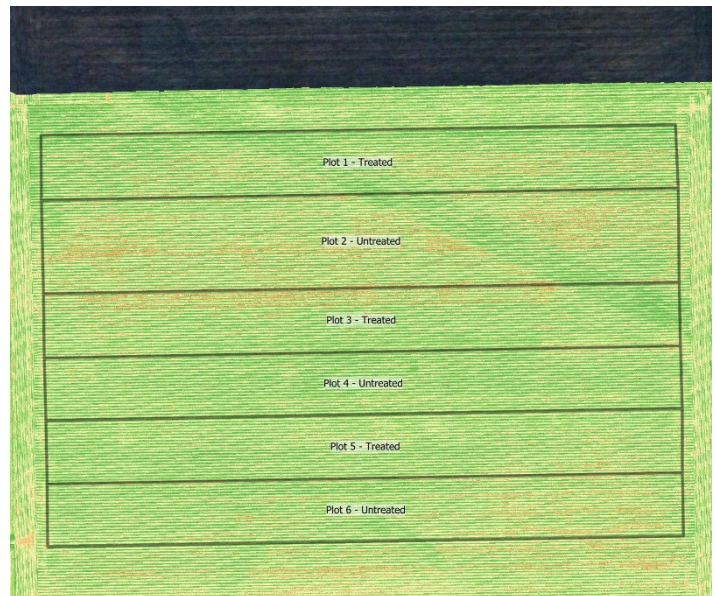
Objective: Quantify the agronomic and economic impacts of a single foliar fungicide application in dry beans.

Summary: White mould was prevalent throughout the trial, at medium severity. Incidence (% of plants infected) and severity (0–5 scale) ratings were similar between treatments 30 days after application, at R6. Yield of dry beans with a single application of Proline® GOLD was significantly greater than yield of untreated dry beans. Profit/ac increased as a result.

Trial Information

Treatment	Proline® GOLD
Application Timing	R1
Application Date	July 21
Application Rate	0.306 L/ac (32 ac/jug)
Application Method	Broadcast
Soil Texture	Clay Loam
Previous Crop	Oats
Seeding Date	May 27
Variety	Pinto Bean Vibrant
Seeding Rate	85,000 seeds/ac
Row Spacing	30 in.
Plant Stand @ R6	64,000 plants/ac
Harvest Date	September 25

Field NDVI Image July 17



Precipitation (mm)

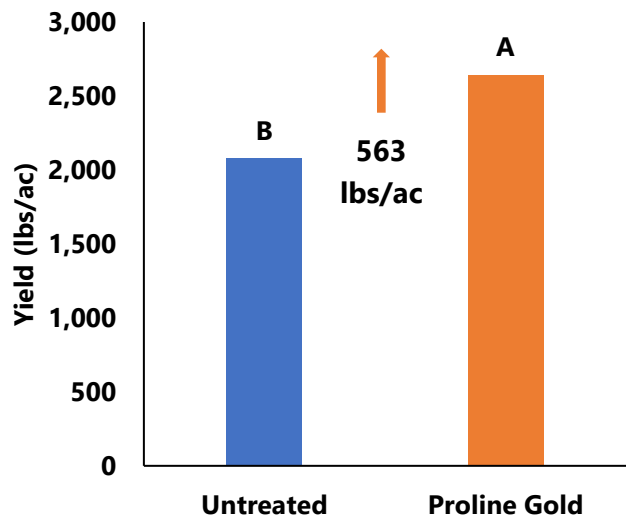
	May	June	July	Aug	Total
Rainfall	56.7	29.3	82.6	44.2	212.8
Normal	63.55	90.92	69.59	61.76	285.82
% Norm	89%	32%	119%	72%	74%

Summary of Disease Ratings† @ R6

	Bacterial Blight		White Mould	
	Incidence	Severity	Incidence	Severity
Untreated	100%	2.6 A	97% A	2.6 A
Proline® GOLD	93%	2.8 A	93% A	2.8 A

† Incidence = percent of plants infected; Severity = Average rating on a 0-5 scale where 0 = no apparent symptoms and 5 = death of plants caused by massive mycelial growth

Yield by Treatment





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Overall Yield & Economics

	Mean (lbs/ac)	Cost †	Change in Profit ††
Proline® GOLD	2641 A	\$25/ac	+\$155.16/ac
Untreated	2078 B		
Yield Difference	563		
P-Value	0.0182		
CV	14.7%		
Significance	Yes	Economic	Yes

† Represents product cost only, does not include application cost

†† Change in profit was calculated assuming a black bean sell price of \$0.32/lb. Profit is the difference between the cost of product and the increased profit of the increased yield.

Field Observations



Above left and right: Patches of dry beans with severe white mould infections within the trial area was observed at the time of the disease rating on August 21, at R6 stage.