

Dry Bean Fungicide Trial

Trial ID: 2023-DBF01 – R.M. of Oakland - Wawanesa

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

Summary: There was no noticeable white mould nor anthracnose disease presence in the field, however, yield was increased by 165 lbs/ac with a single application of Proline Gold, resulting in a profit increase of \$55.5/ac.

Trial Information

Treatment	Proline GOLD
Application Timing	R1
Application Date	July 12
Application Rate	303 mL/ac
Application Method	Broadcast
Soil Texture	Loam
Previous Crop	Canola
Seeding Date	May 21
Variety	CDC Blackstrap Black Bean
Seeding Rate	152 000 seeds/ac
Row Spacing	12"
Plant Stand at R8	68 000 plants/ac
Harvest Date	September 2

Summary of Disease Risk

Risk Factor	Score
Weather Conditions Before flowering	10/12
Weather Expected During Flowering	6/8
Agronomic Considerations (rotation, canopy thickness, etc.)	10/17
Risk Assessment	26/37 Moderate Risk

Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	25.8	64.1	29.5	23.9	143.3
Normal	51.2	72.8	74.4	67.5	265.9
% Norm	50%	88%	40%	35%	54%

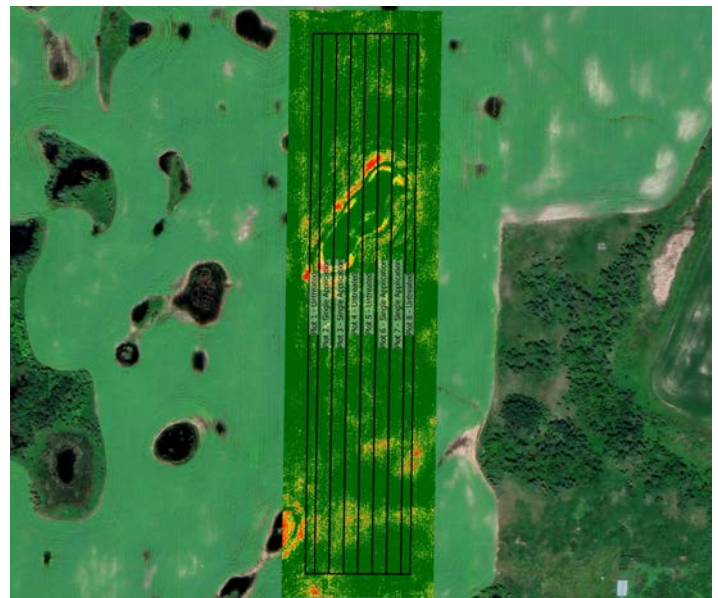
Summary of Disease Ratings†

	Bacterial Blight		White Mould	
	UNTRT	Single	UNTRT	Single
Incidence (R3)	25%	23%	0%	0%
Incidence (R6)	----	----	0%	0%

† SGL=single application; Incidence = percent of plants infected.

UNTRT=untreated

Field NDVI Image July 22

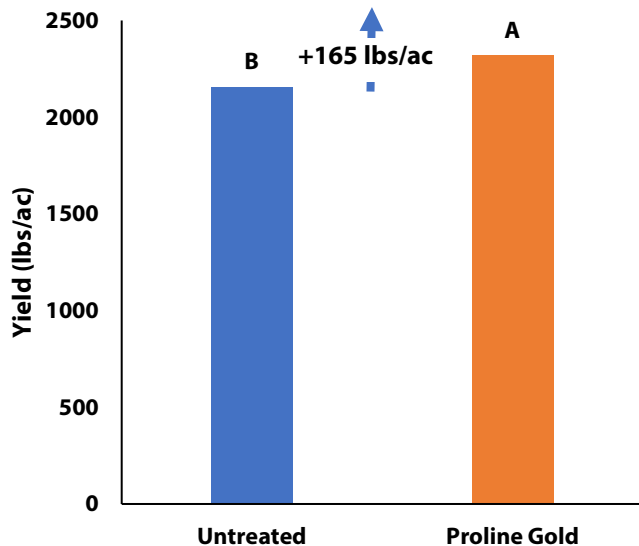




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Yield by Treatment



Overall Yield & Economics

	Mean (lbs/ac)	Cost [†]	Change in Profit ^{††}
Single Application			
Untreated	2153.6 B	\$22/ac	+\$55.50/ac
Yield Difference	164.9		
P-Value	0.007		
CV	1.6%		
Significance	Yes	Economic	Yes

[†] Estimated cost; represents product only, does not include application cost

^{††} Change in profit was calculated assuming a black bean sale price of \$0.47/lb. Profit is the difference between the cost of product and the increased profit of the increased yield