

Dry Bean Fungicide Trial

Trial ID: 2024-DBF03 – R.M. of Lorne

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

Summary: Relatively minor white mould incidence (% of plants with symptoms) was found at this site and disease pressure was similar between treatments. There was no significant yield difference between navy beans with a double application, compared to those with a single application. As a result, there was a decrease in profit/ac equivalent to the cost of the double fungicide application.

Trial Information

Treatment	Proline Gold vs Proline Gold & Revy Pro
Application Timing	R2/R4
Application Date	July 30
Application Rate	40 ac/case
Application Method	Broadcast
Soil Texture	Loam
Previous Crop	Oats
Seeding Date	June 12
Variety	Vibrant
Seeding Rate	75,000 seeds/ac
Row Spacing	30"
Plant Stand at R5	59,000 plants/ac
Harvest Date	September 26

Field NDVI Image August 9



Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	125	125.6	37.9	56.6	345.1
Normal	59.9	87.5	81.9	68.4	297.7
% Norm	209%	144%	46%	83%	116%

Summary of Disease Ratings†

	Bacterial Blight		White Mould	
	DBL	SGL	DBL	SGL
Incidence (R3)	50%	40%	5%	0%

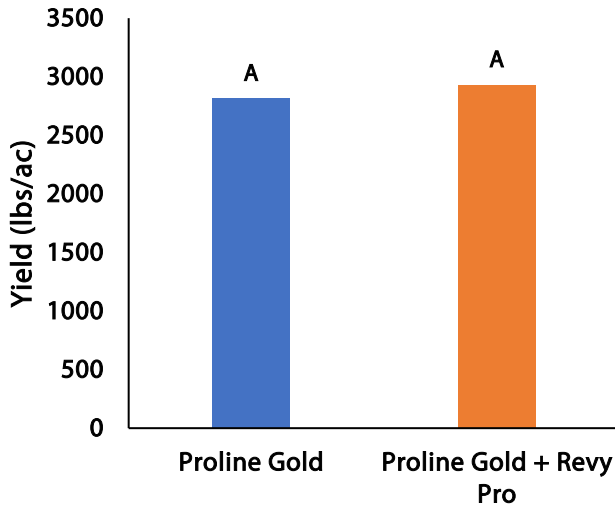
† SGL=single application; DBL=double application Incidence = percent of plants infected. UNTRT=untreated



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on-farm network

Yield by Treatment



Overall Yield & Economics

	Mean (lbs/ac)	Cost †	Change in Profit ††
Double Application	2928	\$40/ac	-\$20/ac
Single Application	2812	\$20/ac	
Yield Difference	116		
P-Value	0.346		
CV	5.2%		
Significance	No	Economic	No

† Estimated 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 second fungicide. Profit/ac declined by the cost of the fungicide application.