

# Dry Bean Fungicide Trial

**Trial ID:** 2022-DBF01 – R.M. of Lorne

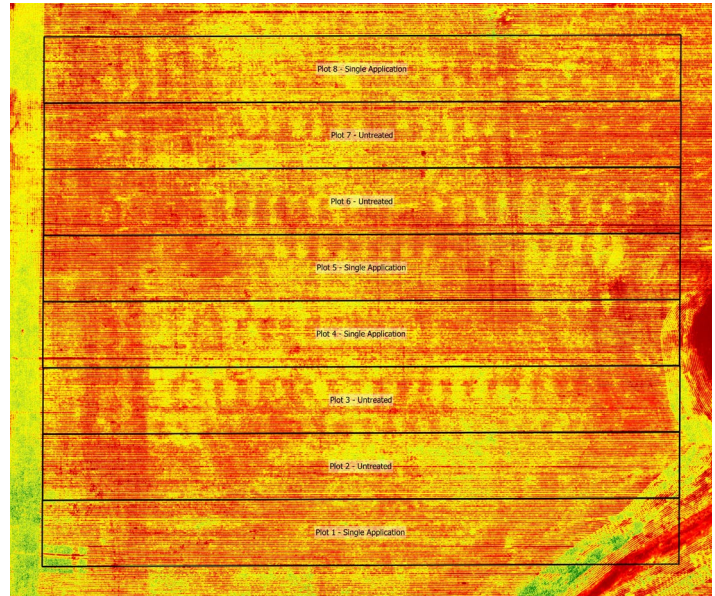
**Objective:** Quantify the agronomic and economic impacts of a single foliar fungicide application in dry beans.

**Summary:** There was no noticeable disease presence in the field, however there was a significant yield increase of 175.2 lbs/ac in dry beans with a single application of Lance WDG. This increase was more than enough to pay for the cost/ac from a single application of fungicide.

## Trial Information

<b>Treatment</b>	Lance WDG
<b>Application Timing</b>	R2
<b>Application Date</b>	July 23
<b>Application Rate</b>	25 ac/case
<b>Application Method</b>	Aerial
<b>Soil Texture</b>	Clay Loam
<b>Previous Crop</b>	Barley
<b>Seeding Date</b>	May 28
<b>Variety</b>	T9905 Navy Bean
<b>Seeding Rate</b>	95,000 seeds/ac
<b>Row Spacing</b>	30"
<b>Plant Stand @ R4</b>	70,000 plants/ac
<b>Harvest Date</b>	October 4

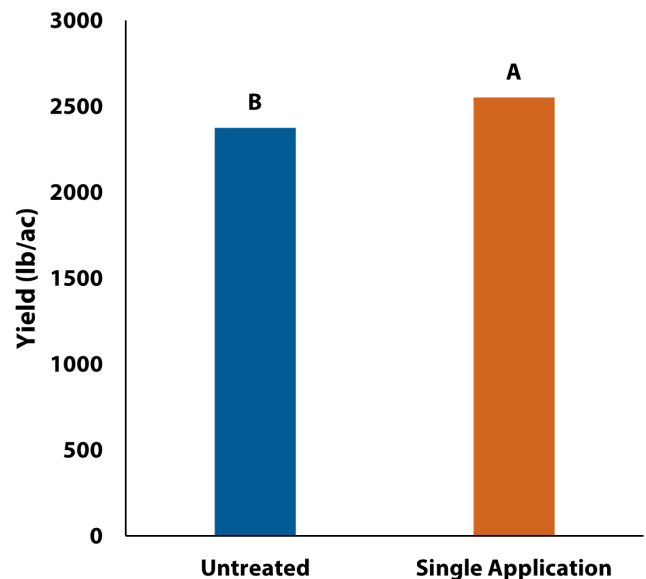
## Field NDVI Image August 3



## Precipitation (mm)

	May	Jun	Jul	Aug	Total
<b>Rainfall</b>	145.6	56.2	105.3	33.1	340.2
<b>Normal</b>	61.1	89.8	68.3	72.3	291.5
<b>% Normal</b>	238%	63%	154%	46%	117%

## Yield by Treatment



## Summary of Disease Rating (R4) †

	Foliar Anthracnose		Stem Anthracnose		White Mould	
	UN	SGL	UN	SGL	UN	SGL
<b>Incidence</b>	0%	0%	0%	0%	0%	0%
<b>Severity</b>	0	0	0	0	0	0

† UN = untreated, SGL=single application; disease presence was not observed in the trial



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### Overall Yield & Economics

	Mean (lb/ac)	Cost †	Change in Profit/ac <sup>††</sup>	
			Long-Term Average (\$0.30-\$0.50/lb)	Current Conditions (\$0.40-\$0.50/lb)
<b>Single Application</b>	2551.4	\$18.50/ac	\$34-\$69/ac	\$52-\$69/ac
<b>Untreated</b>	2376.2			
<b>Yield Difference</b>	175.2			
<b>P-Value</b>	0.015			
<b>CV</b>	4.4%			
<b>Significance</b>	<b>Yes</b>	<b>Economic</b>	<b>Yes</b>	<b>Yes</b>

† Based on MB Agriculture 2022 *Cost of Production Guidelines* and industry prices; treatment cost only, does not include application cost.

†† Change in profit/ac is calculated from profit gained or lost due to yield differences, treatment cost/ac, and market prices; Long-term average prices are based on average dry bean market prices from 2017-2021.