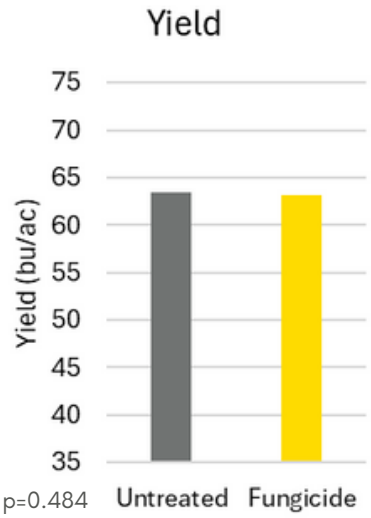
Early Season Fungicide Trial

ESF_04

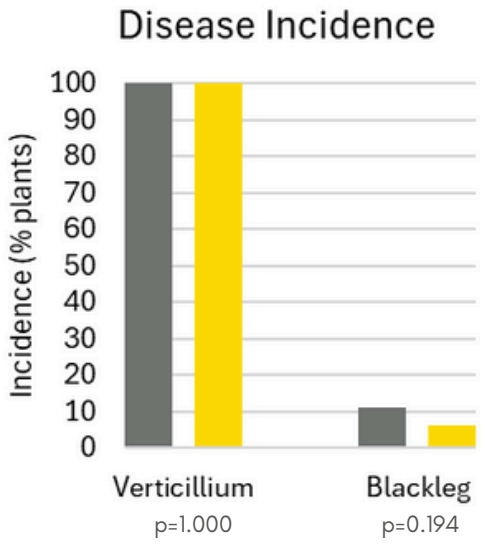
Site Info

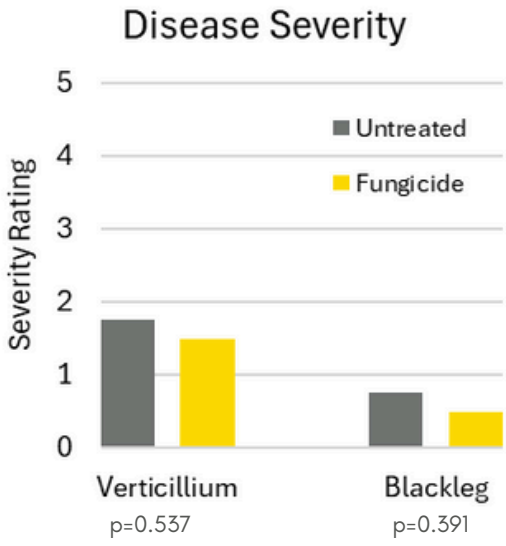
Trial ID:	ESF_04
Rural Municipality:	Montcalm
Seeding Date:	May 6, 2025
Row Spacing:	15 in.
Variety:	L340PC
Seed Treatment:	Helix Vibrance, Buteo
Fungicide Application Date:	June 5, 2025
Fungicide App. Crop Stage:	4-6 leaf
Fungicide Product (Rate):	Maxentis (0.25 L/ac
Fungicide Active Ingredient:	Azoxystrobin + Prothioconazole
Harvest date:	August 31, 2025



Results Summary

Blackleg: Blackleg was not significantly reduced by early-season fungicide application.
Verticillium: Verticillium stripe was not significantly reduced by early-season fungicide application.
Grain Yield: Blackleg fungicide application at the 4-6 leaf stage had no significant influence on grain yield in this trial.
Profitability: Relative to the untreated check, blackleg fungicide application increased costs without significantly greater yield protection, losing $22/ac. Suppression of BL inoculum for future seasons may provide indirect long-term benefits.





Within each data type, treatments with different lowercase letters are significantly different at 95% confidence level ($p < 0.05$). Data types with no lowercase letters listed indicate an insignificant treatment effect.

ESF_04 Continued

Treatment	Blackleg Incidence (%)	Blackleg Severity (0-5)	Verticillium Incidence (%)	Verticillium Severity (0-5)	Plant Count (cotyledon - 1 leaf)	Plant Count (4-6 leaf)
Untreated	11	0.75	100	1.75	3.34	3.44
Fungicide	6	0.50	100	1.50	3.63	3.45
p-value	*0.194*	*0.391*	*1.000*	*0.537*	*0.146*	*0.969*

ESF_04 Weather

	Apr	May	June	July	Aug	Sept	Total
Rainfall (mm)	15.6	52.0	34.6	60.4	58.1	63.6	284.3
Avg Daily Temp (°C)	4.6	14.8	17.4	18.9	19.1	16.1	

ESF_04 Economic Analysis

Treatment	Mean yield (bu/ac)	Application Cost [1]	Change in Profit from Untreated Check [2]
Untreated	63.50	$0/ac	-
Fungicide	63.16	$22/ac	-$22/ac
P-value	0.484		
CV	2.30		

[1] Based on 2025 MB Cost of Production: estimated cost of blackleg fungicide ~$12/ac and estimated cost of canola sprayer operation ~$10/ac

[2] Change in profit is calculated as the difference in grain sales income (based on estimated canola sale price of $13.25/bu) and treatment costs, relative to the standard farm practice. Yields were not significantly different in this trial, therefore there are no differences in grain sales income.

Agronomic Support for this Trial Provided by:

ANTARA AGRONOMY