

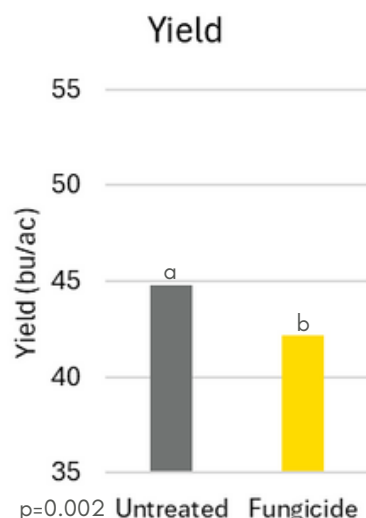
Early Season Fungicide Trial

ESF_07

Site Info

Trial ID: ESF_07
Rural Municipality: Swan River
Seeding Date: May 25, 2025
Row Spacing: 12 in.
Variety: L356PC
Seed Treatment: Buteo
Fungicide Application Date: June 12, 2025
Fungicide App. Crop Stage: 4-6 leaf
Fungicide Product (Rate): Maxentis (0.422 L/ac)
Fungicide Active Ingredient: Azoxystrobin + Prothioconazole

Harvest date: September 28, 2025



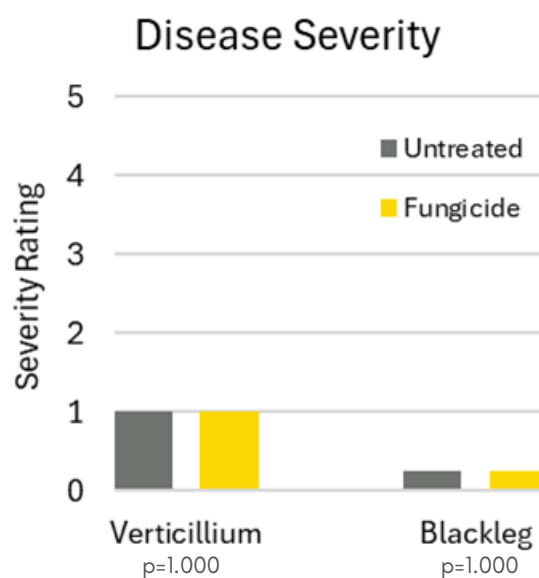
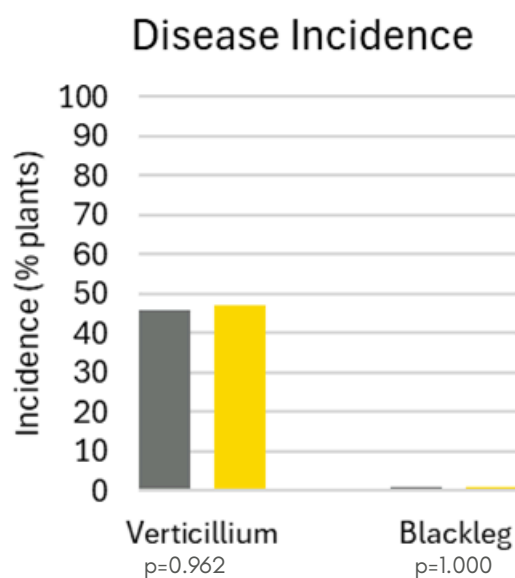
Results Summary

Blackleg: Blackleg was not significantly reduced by early-season fungicide application.

Verticillium: Blackleg was only observed at 1% incidence in the untreated check. Blackleg incidence and severity was not significantly reduced by early-season fungicide application.

Grain Yield: Yield was statistically significantly greater (2.6 bu/ac) in the untreated check.

Profitability: Relative to the untreated check, blackleg fungicide application increased costs without significantly greater yield protection, losing \$56/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.

Early Season Fungicide Trial ESF_07 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	1	0.25	46	1.00	4.63	5.86
Fungicide	1	0.25	47	1.00	4.96	6.11
<i>p-value</i>	1.000	1.000	0.962	1.000	0.272	0.296

ESF_07 Weather

	Apr	May	June	July	Aug	Sept	Total
Rainfall (mm)	1.8	23.8	48.5	20.8	135.0	32.5	262.4
Avg Daily Temp (°C)	2.7	12.7	16.1	17.6	19.1	15.0	

ESF_07 Economic Analysis

Treatment	Mean yield (bu/ac)	Application Cost ¹	Change in Profit from Untreated Check ²
Untreated	44.75 ^a	\$0/ac	-
Fungicide	42.16 ^b	\$22/ac	-\$56/ac
P-value	0.002		
CV	3.54		

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 significantly reduced by the fungicide treatment in this trial, therefore providing reduced grain sales income.

Agronomic Support for this Trial
Provided by:

