

Pea Fungicide Trial

Trial ID: 2023-PF02 – R.M. of Hillsburg-Roblin-ShellRiver

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

Summary: Ascochyta/Mycosphaerella blight was prevalent throughout the trial. Untreated peas had 40% more plants with stem infections and more severe foliar infections than peas with a fungicide application. There was no significant yield difference. As a result, profit/ac in the treated area of the trial decreased by the cost/ac of fungicide application.

Trial Information

Treatment	Dyax
Application Timing	R3
Application Date	June 24
Application Rate	160mL/ac
Application Method	Broadcast
Soil Texture	Loam
Previous Crop	Canola
Tillage	Conventional
Seeding Date	May 4
Variety	AAC Carver
Seeding Rate	186 lbs/ac
Row Spacing	10"
Plant Stand at R3	264 000 plants/ac
Harvest Date	August 7

Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	8.1	62.7	26	58.8	155
Normal	51.8	81.9	77	71.6	282
% Norm	16%	77%	34%	82%	55%

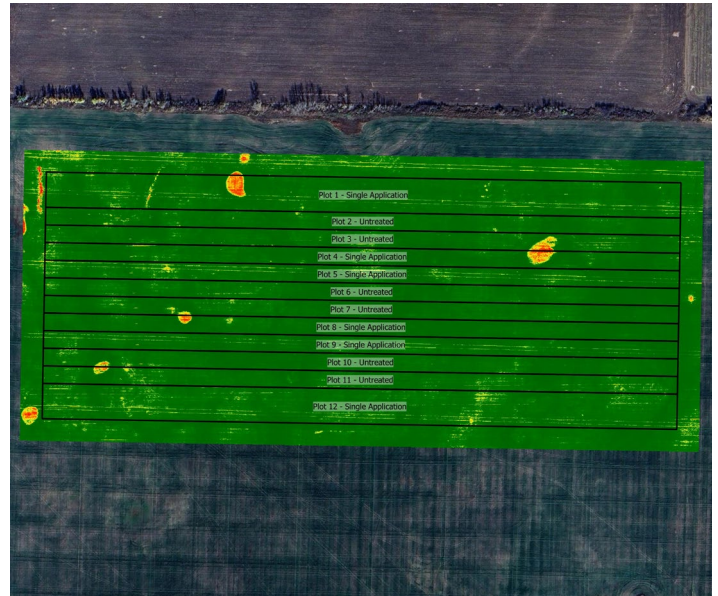
Summary of Disease Rating (R3)[†]

Ten symptomatic plants were randomly selected for resistance testing from untreated areas of the field. 0.5% of the Ascochyta/ Mycosphaerella blight population at this trial was resistant to group 11 fungicides.

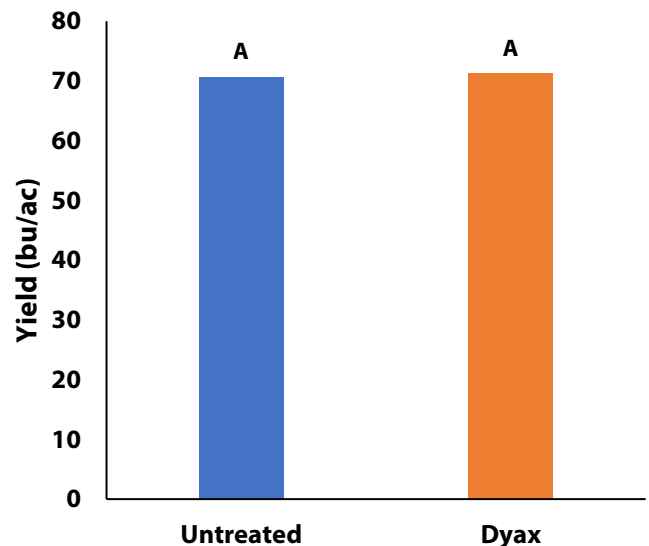
	Foliar A/M		Stem A/M	
	UNTRT	SGL	UNTRT	SGL
Incidence	100%	95%	85%	45%
Severity	3.5	2.7	1.9	1.5

[†] SGL=Single application; Foliar and stem ascochyta/ Mycosphaerella blight (A/M) 1 – 7 rating scale; Incidence = percent of plants infected.

NDVI Field Image July 11



Yield by Treatment





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Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit ††
Single Application	71.2	\$10-\$23/ac	-\$10-\$23/ac
Untreated	70.6		
Yield Difference	0.6		
P-Value	0.865		
CV	5.7%		
Significance	No	Economic	No

† Based on an estimated fungicide product cost of \$10-\$23/ac, product cost only, does not include application cost

†† Because yields were not significantly different, there is no increased income to offset the cost of the fungicide. Profit/ac declined by the cost of the fungicide application.

