

Pea Fungicide Trial

Trial ID: 2023-PF10 – R.M. of Minitonas - Bowsman

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

Summary: A second fungicide application reduced the number of plants infected with foliar Ascochyta/ Mycosphaerella blight by 12%. There was no significant yield difference between peas with two applications vs. a single application. As a result, profit/ac in the treated area of the trial decreased by the cost/ac of the double fungicide application.

Trial Information

Treatments	Delaro vs. Delaro +Dyax
Application Timing	R2
Application Date	June 26
Application Rate	356mL/ac
Application Method	Broadcast
Soil Texture	Loamy Fine Sand
Previous Crop	Canola
Tillage	Conventional
Seeding Date	May 10
Variety	Chromes
Seeding Rate	3.5 bu/ac
Row Spacing	7.5"
Plant Stand @ R3	258 000 plants/ac
Harvest Date	August 20

Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	17.5	36.1	0.4	70	124
Normal	45.4	84.2	86	68.3	284
% Norm	39%	43%	0%	102%	44%

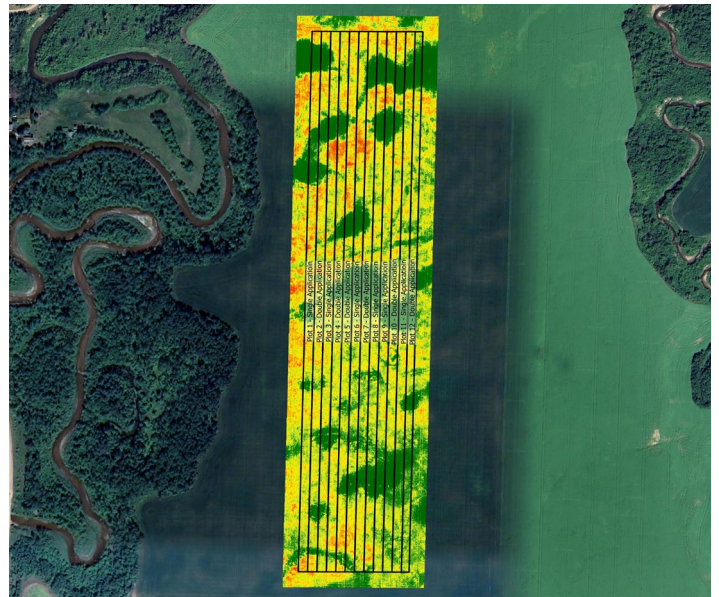
Summary of Disease Rating (R3) †

Ten symptomatic plants were randomly selected for resistance testing from untreated areas of the field. 0.02% of the Ascochyta/ Mycosphaerella blight population at this trial was resistant to group 11 fungicides.

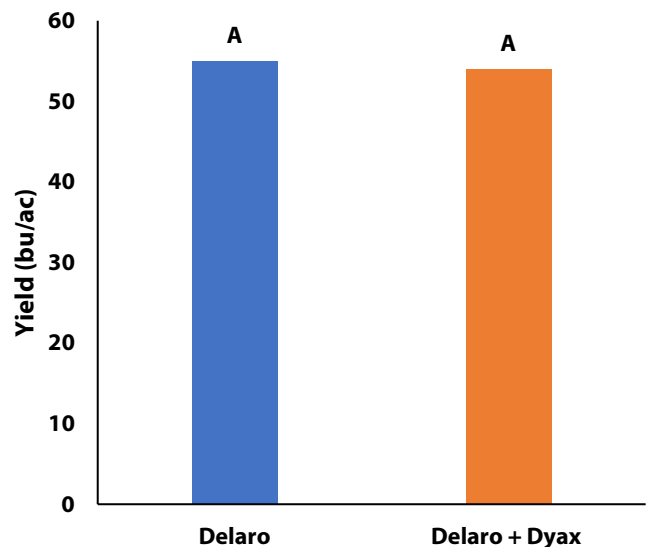
	Foliar A/M		Stem A/M	
	SGL	DBL	SGL	DBL
Incidence	100%	88%	92%	97%
Severity	2.6	2.1	1.4	1.1

† SGL=Single application; DBL= Double application; ; Foliar and stem Ascochyta/Mycosphaerella (A/M) 1 – 7 rating scale; Incidence= Percent of plants infected.

NDVI Field Image July 25



Yield by Treatment





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Pea Fungicide Trial

Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit ††
Single Application	54.0	\$10-\$23/ac	
Double Application	54.9	\$20-\$46/ac	-\$10-\$23/ac
Yield Difference	0.9		
P-Value	0.2		
CV	2.2%		
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.