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Pea Fungicide Trial

Trial ID: 2023-PF09 – R.M. of Swan Valley West

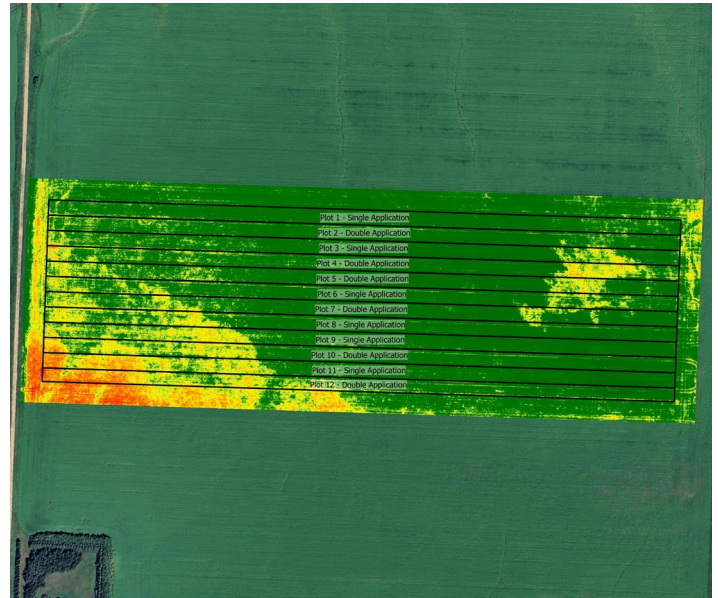
Objective: Quantify the agronomic and economic impacts of a single vs double foliar fungicide application in field peas.

Summary: Ascochyta/Mycosphaerella blight was prevalent throughout the trial. 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

Treatment	Miravis Neo vs Miravis Neo + Cotegra
Application Timing	R2
Application Date	June 27
Application Rate	263 mL/ac
Application Method	Broadcast
Soil Texture	Clay Loam
Previous Crop	Canola
Tillage	Conventional
Seeding Date	May 12
Variety	Abarth
Seeding Rate	300 lbs/ac
Row Spacing	10"
Plant Stand @ R3	444 000 plants/ac
Harvest Date	August 27

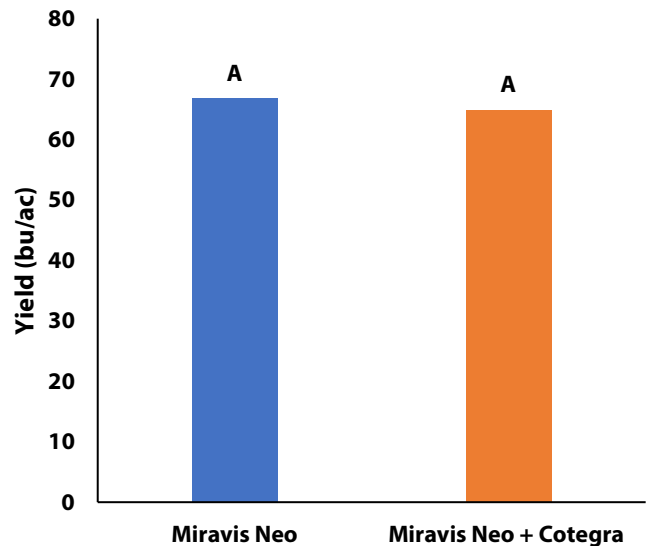
NDVI Field Image July 25



Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	40.7	57.4	15	78.1	191
Normal	45.4	84.2	86	68.3	284
% Norm	90%	68%	18%	114%	68%

Yield by Treatment



Summary of Disease Rating (R3)[†]

	Foliar A/M		Stem A/M	
	SGL	DBL	SGL	DBL
Incidence	100%	100%	92%	97%
Severity	2.9	3.6	2	2

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



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Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit ††
Single Application	66.8	\$10-\$23/ac	
Double Application	64.9	\$20-\$46/ac	-\$10-\$23/ac
Yield Difference	-1.9		
P-Value	0.083		
CV	2.3%		
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.