Pea Fungicide Trial

Trial ID: 2023-PF05 – R.M. of Lorne

Objective: Quantify the agronomic and economic impacts of two foliar fungicide products with one application each in field peas

Summary: The pre-spray check (V11) did not indicate an application of fungicide was necessary, however, the crop canopy progressed rapidly, and fungicide reduced both stem and foliar disease symptoms compared to the untreated. There was a significant yield increase of 11.3 bu/ac and 13.8 bu/ac with a single application of RevyPro and Delaro fungicide, respectively, compared to no application. There was no significant yield difference between the fungicide products tested. As a result, profit/ac in the treated areas of the trial increased.

Trial Information

Treatments	Delaro RevyPro
Application Timing	R1
Application Date	July 3
Application Rate	160mL/ac (Delaro) 405 mL/ac (RevyPro)
Application Method	Broadcast
Soil Texture	Clay Loam
Previous Crop	Wheat
Tillage	Conventioal
Seeding Date	May 16
Variety	AAc Chrome
Seeding Rate	180 lbs/ac
Row Spacing	10”
Plant Stand @ R4	303 000 plants/ac
Harvest Date	September 1

Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	17.8	28.6	18	45.8	111
Normal	54.7	83.2	79	65.1	282
% Norm	33%	34%	23%	70%	39%

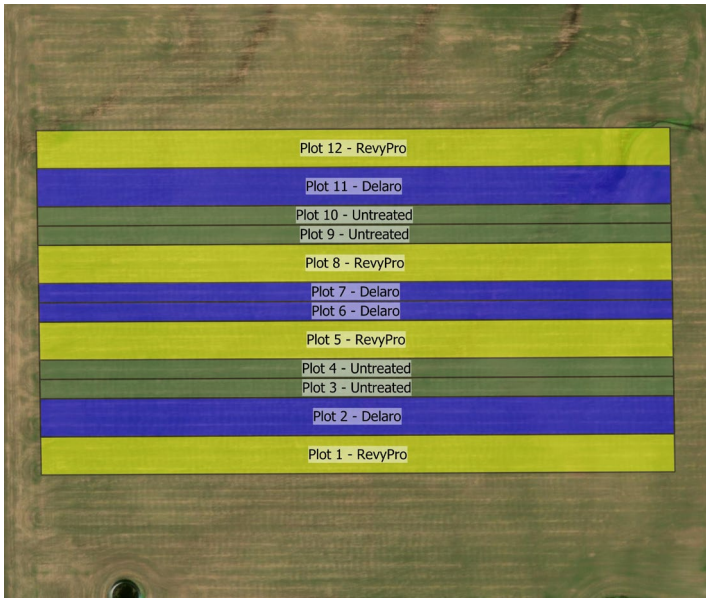
Summary of Disease Rating (R3)ǂ

Ten symptomatic plants were randomly selected for resistance testing from untreated areas of the field. 0.1% of the Ascochyta/ Mycosphaerella blight population at this trial was resistant to group 11 fungicides.

	Foliar Ascochyta/Mycosphaerella		
	UNTRT	Delaro	RevyPro
Incidence	100%	100%	100%
Severity	4.6	3.8	3.7
	Stem Ascochyta/Mycosphaerella		
	UNTRT	Delaro	RevyPro
Incidence	98%	88%	78%
Severity	2.5	2.1	2

ǂ Foliar and stem Ascochyta/Mycosphaerella (A/M) 1-7 rating scale; Incidence= Percent of plants infected.

Field Image



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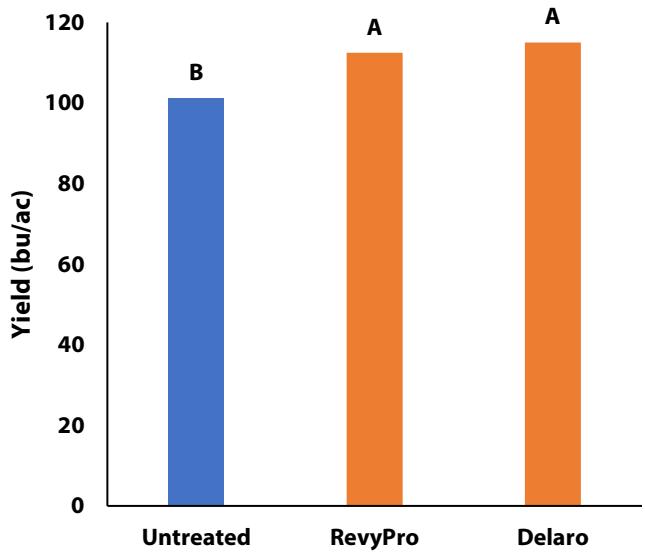
Yield by Treatment



Pre-Spray Check at V11

Category	Average Rating‡	Explanation
Crop Canopy	3	Thin- High weed pressure, low yield expected
Leaf Wetness/Humidity @ 12 pm	16	Low-moderate leaf wetness
5-Day Weather Forecast	0	Dry
Ascochyta Symptoms on Peas	2	Less than 20% of plants showing symptoms
Total Score	**21**	**No application recommended**

‡ Ratings taken at six locations in the field and average together to assess overall field risk ahead of fungicide application.

Overall Yield & Economics

	Mean (bu/ac)	Cost‡	Change in Profit/ac (pea price of $10/bu)‡‡
Delaro	115.0 A	$10-$23/ac	+$115-128/ac
RevyPro	112.5 A	$10-$23/ac	+$90-103/ac
Untreated	101.2 B		
P-Value	0.005		
CV	3.6%		
Significance	**Yes**	**Economic**	**Yes**

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

‡‡ Profit is the difference between the change in income/ac from a significant yield difference, and the range in cost/ac of the fungicide

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