

Pea Fungicide Trial

Trial ID: 2023-PF03 - R.M. of Morris

Objective: Quantify the agronomic and economic impacts of fungicide applications in field peas.

Summary: Ascochyta/Mycosphaerella blight was prevalent throughout the trial. Untreated peas had more severe foliar infections than peas with a fungicide application. There were no significant yield differences between peas with and without a single application of Dyax or RevyPro. As a result, profit/ac in the treated area of the trial decreased by the cost/ac of fungicide application.

Trial Information

Treatment	Dyax vs. Revy Pro
Application Timing	R2
Application Date	June 28
Application Rate	160mL/ac (Dyax)
	405 mL/ac (RevyPro)
Application Method	Broadcast
Soil Texture	Clay
Previous Crop	Wheat
Tillage	Conventional
Seeding Date	60 ft Disc Drill
Variety	CDC Lewochko
Seeding Rate	213 lbs/ac
Row Spacing	10"
Plant Stand @ R4	283 000 plants/ac
Harvest Date	August 9

Summary of Disease Rating (R3)+

Ten symptomatic plants were randomly selected for resistance testing from untreated areas of the field. 4.5% of the Ascochyta/ Mycosphaerella blight population at this trial was resistant to group 11 fungicides.

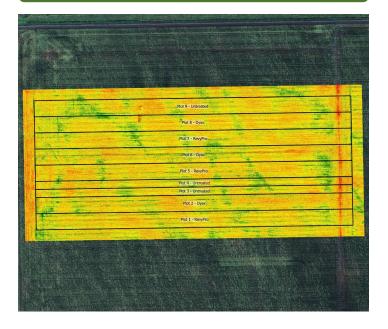
	Foliar Ascochyta/Mycosphaerella			
	UNTRT	Dyax	RevyPro	
Incidence	100%	100%	100%	
Severity	5.0	4.0	4.1	
	Stem Ascochyta/Mycosphaerella			
	UNTRT	Dyax	RevyPro	
Incidence	37%	27%	57%	
Severity	1.4	1.3	1.6	

+ Foliar and stem ascochyta 1-7 rating scale; Incidence= Percent of plants infected.

Precipitation (mm)

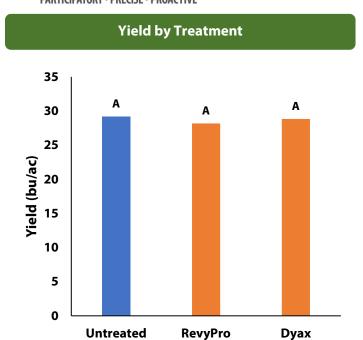
	May	June	July	Aug	Total
Rainfall	11.7	20.4	26	39.5	97.3
Normal	53.6	86.4	72	65.4	277
% Norm	22%	24%	36%	60%	35%

NDVI Field Image July 17



on-farm network

Pea Fungicide Trial



Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit ††
Dyax	28.8	\$10-\$23/ac	-\$10-\$23/ac
RevyPro	28.2	\$10-\$23/ac	-\$10-\$23/ac
Untreated	29.2		
P-Value	0.775		
CV	6.1%		
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.