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Pea Fungicide Trial

Trial ID: 2023-PF04 – R.M. of Grey

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 33% more plants with stem infections than peas with a fungicide application. There was a significant yield increase of 2.8 bu/ac with a single application of Dyax fungicide. As a result, profit/ac in the treated area of the trial increased by \$6-18/ac.

Trial Information

Treatment	Dyax
Application Timing	R1
Application Date	June 30
Application Rate	160mL/ac
Application Method	Broadcast
Soil Texture	Clay
Previous Crop	Oats
Tillage	Conventional
Seeding Date	May 12
Variety	CDC Lewochko
Seeding Rate	180 000 seeds/ac
Row Spacing	10"
Plant Stand @ R3	235 000 plants/ac
Harvest Date	August 9

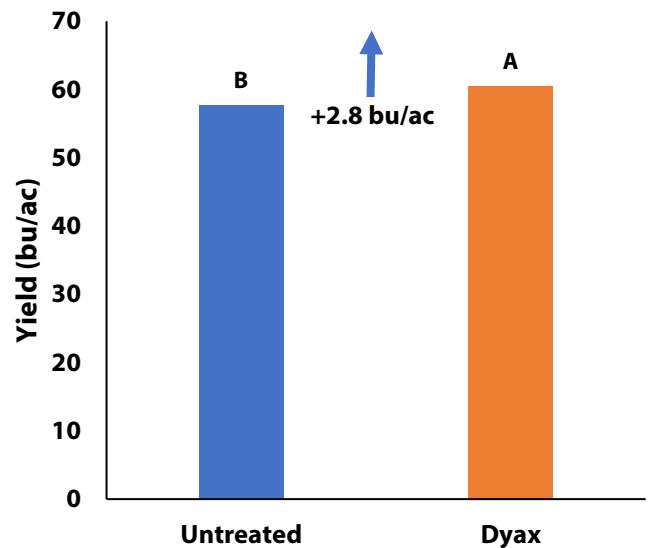
Field Image



Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	22.5	22.8	19	30.9	95.1
Normal	53.8	80.6	66	71	271
% Norm	42%	28%	29%	44%	35%

Yield by Treatment



Summary of Disease Rating (R3)[†]

Ten symptomatic plants were randomly selected for resistance testing from untreated areas of the field. 1.8% 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	98%	98%	58%	25%
Severity	2.8	2.4	1.3	1.6

[†] SGL=Single application; Foliar and stem Ascochyta/ Mycosphaerella (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 (pea price of \$10/bu) ††
Single Application	60.4 A	\$10-\$23/ac	+\$6-\$18/ac
Untreated	57.6 B		
Yield Difference	2.8		
P-Value	0.021		
CV	2.5%		
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