

Pea Fungicide Trial

Trial ID: 2024-PF03 – R.M. of Wallace-Woodsworth

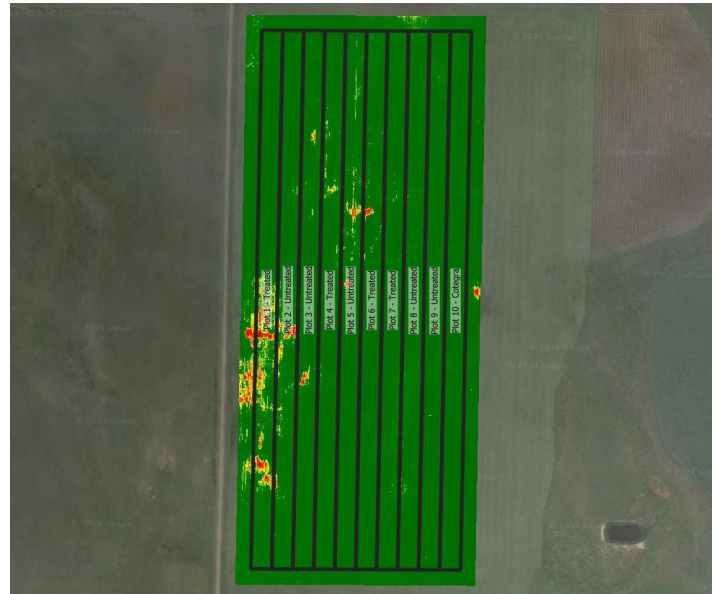
Objective: Quantify the agronomic and economic impacts of a single foliar fungicide application in field peas.

Summary: Foliar and stem Ascochyta/Mycosphaerella blight were prevalent throughout the trial. Disease severity was slightly reduced in the treated area of the trial. There was no significant yield difference between peas with and without a single application of Cotegra. As a result, profit/ac in the treated area of the trial decreased by the cost of the fungicide application.

Trial Information

Treatment	Cotegra vs Untreated
Application Timing	R3
Application Date	July 9
Application Rate	35 ac/jug
Application Method	Aerial
Soil Texture	Loam
Previous Crop	Wheat
Tillage	Conventional Till
Seeding Date	May 3
Variety	AAC Chrome
Seeding Rate	180 lbs/ac
Row Spacing	12"
Plant Stand @ R3	382,000 plants/ac
Harvest Date	August 12

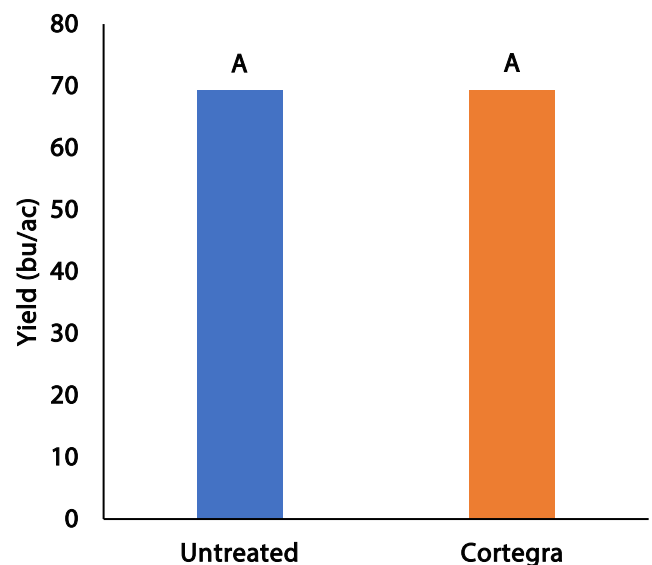
NDVI Field Image July 18



Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	90.6	100.8	13.8	38	243.2
Normal	48	75.6	64.5	57.8	245.9
% Norm	189%	133%	21%	66%	99%

Yield by Treatment



Summary of Disease Rating (R3) †

	Foliar A/M		Stem A/M	
	UNTRT	SGL	UNTRT	SGL
Incidence	98%	100%	84%	88%
Severity	3.8	3.4	2.2	1.9

† SGL=Single application; Foliar and stem Ascochyta/Mycosphaerella (A/M) 1 – 7 rating scale where 1 is least severe and 7 is most severe. Incidence = percent of plants infected.



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on-farm network

Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit ††
Single Application	69.3	\$20/ac	-\$20/ac
Untreated	69.2		
Yield Difference	0.1		
P-Value	0.877		
CV	1.7%		
Significance	No	Economic	No

† Based on an estimated fungicide product cost of \$20/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 declines by the cost of the fungicide application.