

Pea Fungicide Trial

Trial ID: 2022-PF06 – R.M. of Dauphin

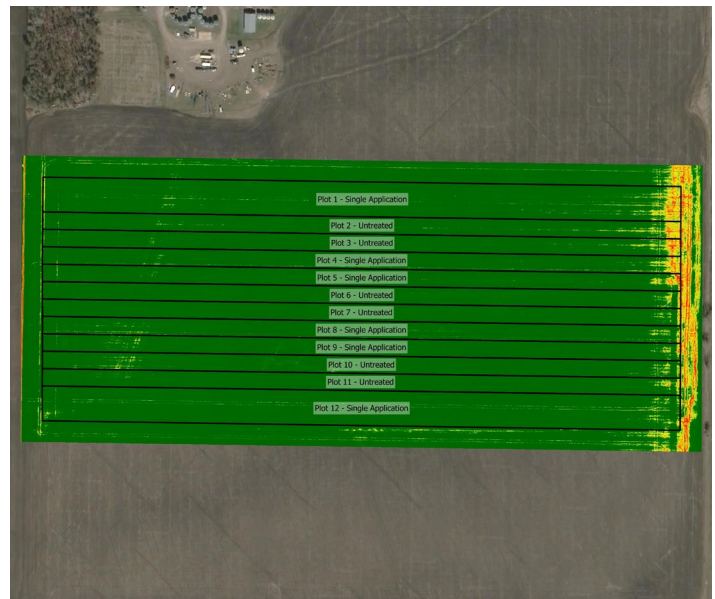
Objective: Quantify the agronomic and economic impacts of a single foliar fungicide application in field peas.

Summary: The pre-spray check (V13) did not indicate the need for fungicide application. Foliar ascochyta was more prevalent than stem ascochyta throughout the trial. There was a significant yield increase of 6 bu/ac for peas with a single fungicide application compared to peas with no fungicide application. This yield increase was more than enough to pay for the cost/ac from a single application of fungicide.

Trial Information

Treatment	Dyax
Application Timing	R3
Application Date	July 15
Application Rate	60 ac/jug
Application Method	Broadcast
Soil Texture	Clay
Previous Crop	Canola
Tillage	Conventional
Seeding Date	May 26
Variety	AAC Carver
Seeding Rate	198 lbs/ac
Row Spacing	10"
Plant Stand @ R4	321,000 plants/ac
Harvest Date	August 31

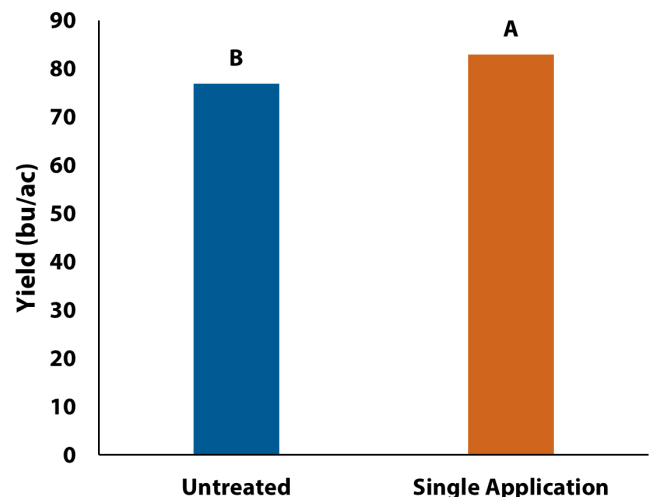
NDVI Field Image July 26



Precipitation (mm)

	May	Jun	Jul	Aug	Total
Rainfall	129.6	74.6	75.5	39.5	319.2
Normal	54.3	86.7	73.2	63.3	277.5
% Normal	239%	86%	103%	62%	115%

Yield by Treatment



Summary of Disease Rating (R4) †

	Foliar Ascochyta		Stem Ascochyta	
	Untreated	Single	Untreated	Single
Incidence	90%	97%	48%	48%
Severity	2.5	2.6	1.5	1.5

† Foliar and stem ascochyta are rated on a scale of 1 (no symptoms) to 7 (stunted/dead plants).



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Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit/ac ^{††}	
			Long-Term Average (\$5.33-\$11.47/bu)	Current Conditions (\$11-\$13/bu)
Single Application	82.9	\$18.50/ac	\$13-\$50/ac	\$48-60/ac
Untreated	76.9			
Yield Difference	6.0			
P-Value	0.0005			
CV	4.2%			
Significance	Yes	Economic	Yes	Yes

† Based on MB Agriculture 2022 *Cost of Production Guidelines* and industry prices; treatment cost only, does not include application cost.

†† Change in profit/ac is calculated from profit gained or lost due to yield differences, treatment cost/ac, and market prices; Long-term average prices are based on Manitoba Agriculture's Historical Manitoba Crop Prices (2017-2021).