

Pea Fungicide Trial

Trial ID: 2020-PF05 – R.M. of North Cypress-Langford

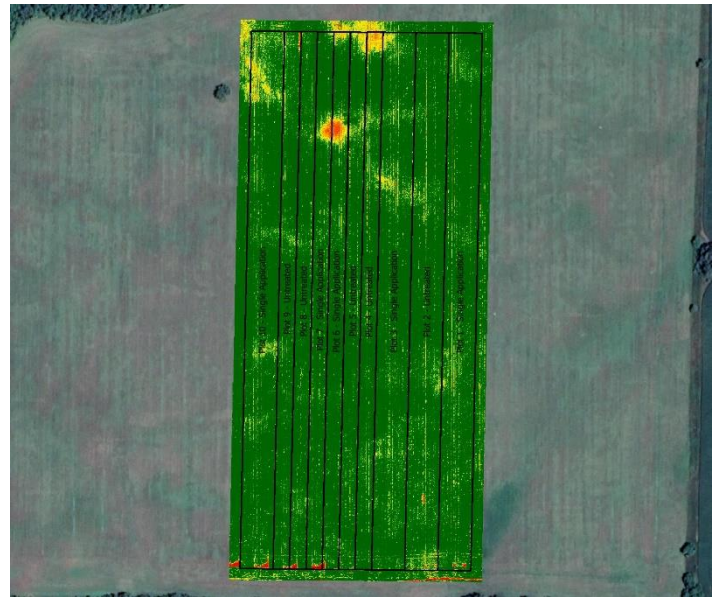
Objective: Quantify the agronomic and economic impacts of a single foliar fungicide application in field peas

Summary: Foliar and stem ascochyta were prevalent throughout the trial at low levels. There was no significant yield difference between peas with and without a single application of Dyax. Due to the lack of yield response, there was a decrease in profit/ac in the treated area of the trial equivalent to the cost of the fungicide application.

Trial Information

Treatment	Dyax
Application Timing	R1
Application Date	July 20
Application Rate	160 ml/ac
Application Method	Broadcast
Soil Texture	Loam / Loamy Fine Sand
Previous Crop	Fall Rye
Tillage	Zero Till
Seeding Date	May 12
Variety	Stockade
Seeding Rate	180 lbs/ac
Row Spacing	10"
Plant Stand @ R3	179 000 plants/ac
Harvest Date	August 24

NDVI Field Image July 23



Precipitation (mm)

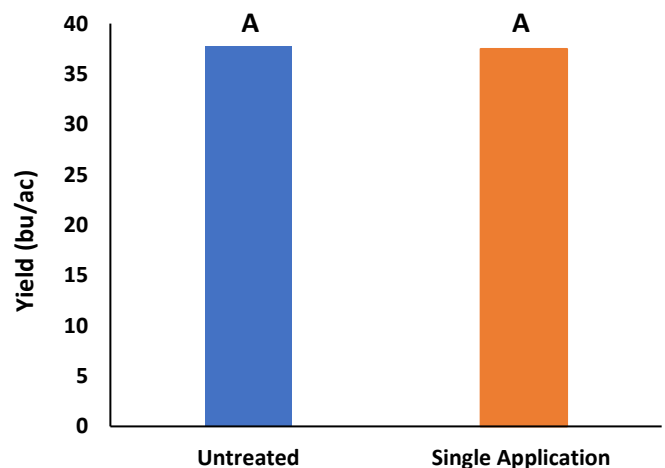
	May	June	July	August
Normal	56.5	78	80.2	68.7
Rainfall	7.9	100.8	79.8	45.1

Summary of Disease Rating (R3) †

	Foliar Ascochyta		Stem Ascochyta	
	UN	SGL	UN	SGL
Incidence	100%	100%	100%	100%
Severity	2.2	2.0	2.2	2.0

† SGL=Single application; Foliar ascochyta 1 – 7 rating scale, stem ascochyta 1 – 7 rating scale

Yield by Treatment





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Pea Fungicide Trial

Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit/ac ††
Single Application	37.5	\$20/ac	-\$20/ac
Untreated	37.8		
Yield Difference	-0.3		
P-Value	0.8294		
CV	4.5%		
Significance	No	Economic	No

† Based on MB Agriculture 2020 Cost of Production Guidelines; 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.