

Pea Fungicide Trial

Trial ID: 2020-PF03 – R.M. of Rockwood

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	June 29
Application Rate	160 ml/ac
Application Method	Broadcast
Soil Texture	Very Fine Sandy Loam
Previous Crop	Canola
Tillage	Conventional
Seeding Date	May 10
Variety	AAC Carver
Seeding Rate	180 lbs/ac
Row Spacing	10"
Plant Stand @ R3	151 000 plants/ac
Harvest Date	August 11

Precipitation (mm)

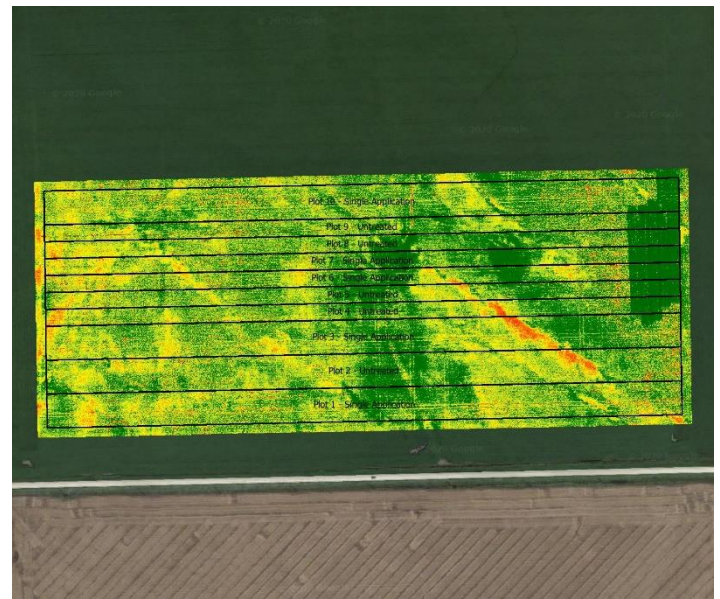
	May	June	July	August
Normal	53.8	92	66.4	63.3
Rainfall	31.1	57.6	37.3	91.2

Summary of Disease Rating (R3) †

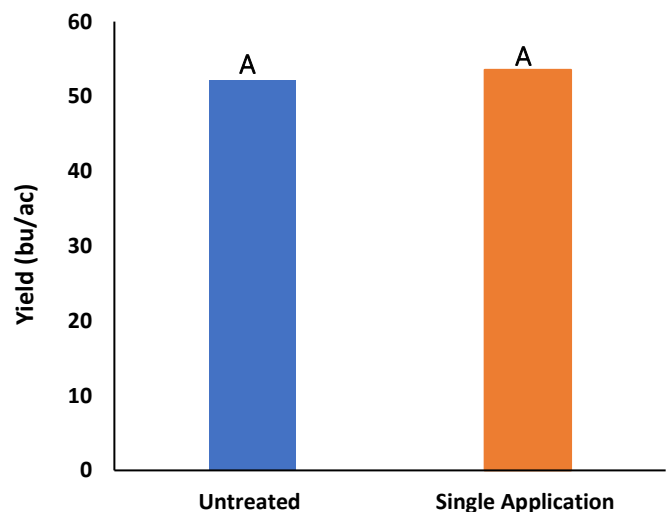
	Foliar Ascochyta		Stem Ascochyta	
	UN	SGL	UN	SGL
Incidence	100%	100%	100%	100%
Severity	2.5	2.6	2.0	2.0

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

NDVI Field Image July 22



Yield by Treatment





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Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit/ac ††
Single Application	53.5	\$20/ac	-\$20/ac
Untreated	52.2		
Yield Difference	1.3		
P-Value	0.3018		
CV	5.1%		
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.