

# Pea Fungicide Trial

**Trial ID:** 2020-PF02 – R.M. of Dauphin

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

**Summary:** Foliar and stem ascochyta was 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

<b>Treatment</b>	Dyax
<b>Application Timing</b>	R1
<b>Application Date</b>	June 26
<b>Application Rate</b>	160 ml/ac
<b>Application Method</b>	Aerial
<b>Soil Texture</b>	Loamy Clay Loam
<b>Previous Crop</b>	Wheat
<b>Tillage</b>	Conventional
<b>Seeding Date</b>	April 28
<b>Variety</b>	AAC Carver
<b>Seeding Rate</b>	180 lbs/ac
<b>Row Spacing</b>	10"
<b>Plant Stand @ R3</b>	186 000 plants/ac
<b>Harvest Date</b>	August 7

## Precipitation (mm)

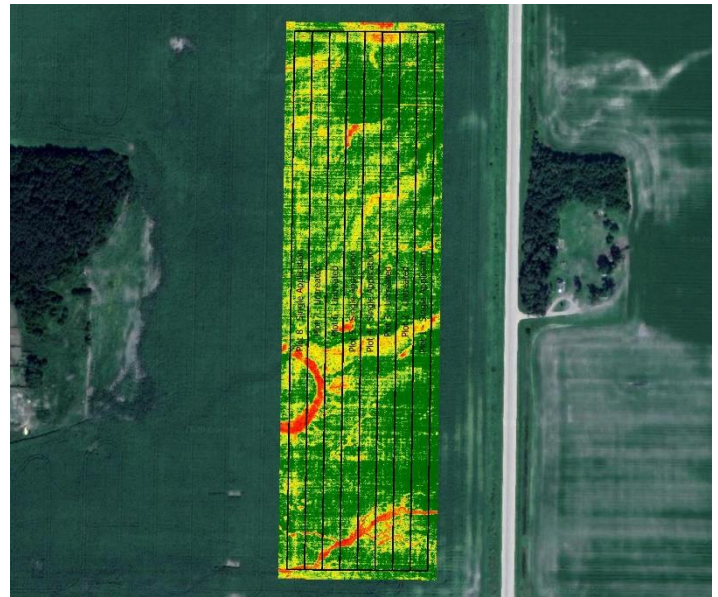
	May	June	July	August
<b>Normal</b>	54.3	86.7	73.2	63.3
<b>Rainfall</b>	31.8	101	67.9	98.4

## Summary of Disease Rating (R3) †

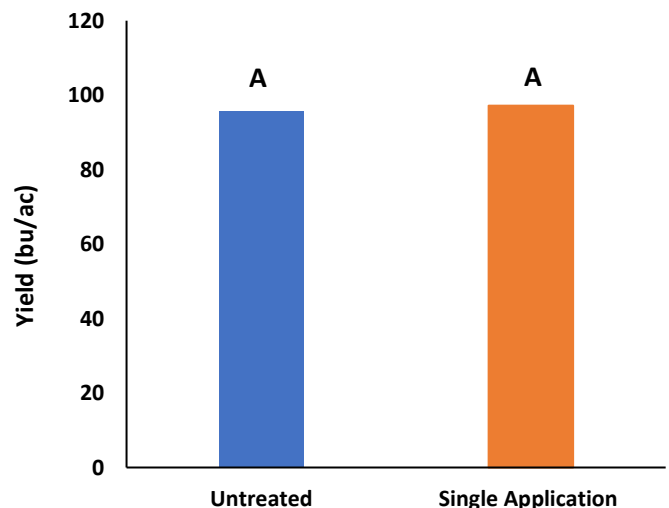
	Foliar Ascochyta		Stem Ascochyta	
	UN	SGL	UN	SGL
<b>Incidence</b>	100%	100%	100%	63%
<b>Severity</b>	2.3	2.0	2.0	1.6

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

## NDVI Field Image July 28



## Yield by Treatment





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### Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in profit/ac ††
<b>Single Application</b>	97.2	\$20/ac	-\$20/ac
<b>Untreated</b>	95.7		
<b>Yield Difference</b>	1.5		
<b>P-Value</b>	0.2318		
<b>CV</b>	2.1%		
<b>Significance</b>	<b>No</b>	<b>Economic</b>	<b>No</b>

† 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.