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# Pea Fungicide Trial

**Trial ID:** 2022-PF12 – R.M. of Dauphin

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

**Summary:** Foliar ascochyta was more prevalent than stem ascochyta throughout the trial. There was no significant yield difference between peas with and without a single application of Dyax. As a result, profit/ac in the treated area of the trial decreased by the cost/ac of fungicide application.

## Trial Information

<b>Treatment</b>	Dyax
<b>Application Timing</b>	R2
<b>Application Date</b>	July 22
<b>Application Rate</b>	60 ac/jug
<b>Application Method</b>	Broadcast
<b>Soil Texture</b>	Loam
<b>Previous Crop</b>	Canola
<b>Tillage</b>	Conventional
<b>Seeding Date</b>	June 7
<b>Variety</b>	CDC Inca
<b>Seeding Rate</b>	180 lbs/ac
<b>Row Spacing</b>	10"
<b>Plant Stand @ R4</b>	317,000 plants/ac
<b>Harvest Date</b>	September 12

## Precipitation (mm)

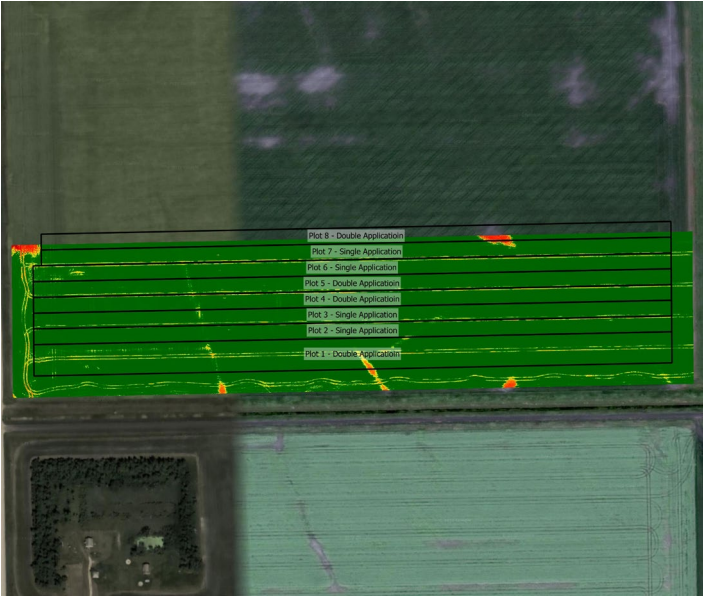
	May	Jun	Jul	Aug	Total
<b>Rainfall</b>	129.6	74.6	75.5	39.5	319.2
<b>Normal</b>	54.3	86.7	73.2	63.3	277.5
<b>% Normal</b>	239%	86%	103%	62%	115%

## Summary of Disease Rating (R4)<sup>†</sup>

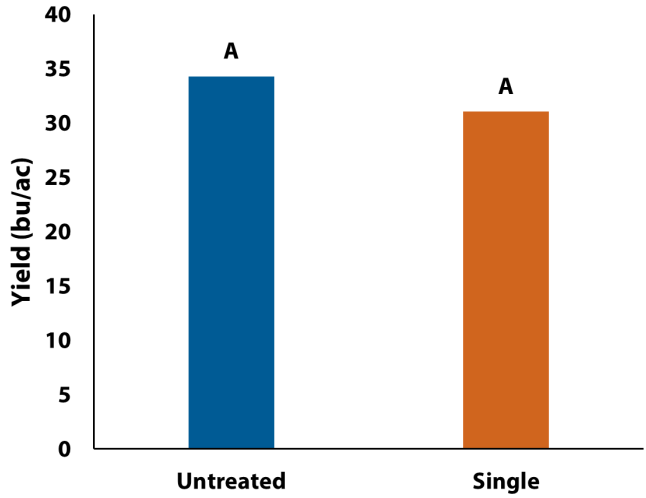
	Foliar Ascochyta		Stem Ascochyta	
	Untreated	Single	Untreated	Single
<b>Incidence</b>	100%	100%	65%	50%
<b>Severity</b>	2.7	2.5	1.7	1.5

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

## NDVI Field Image August 4



## Yield by Treatment





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### Overall Yield & Economics

	Mean (bu/ac)	Cost <sup>†</sup>	Change in Profit/ac <sup>††</sup>
<b>Single Application</b>	31.0	\$18.50/ac	-\$18.50/ac
<b>Untreated</b>	34.3		
<b>Yield Difference</b>	-3.3		
<b>P-Value</b>	0.2978		
<b>CV</b>	11.7%		
<b>Significance</b>	<b>No</b>	<b>Economic</b>	<b>No</b>

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

<sup>††</sup> Yields were not significantly different, therefore profit/ac decreased by the cost/ac of a fungicide treatment.