

## Pea Fungicide Trial

**Trial ID:** 2021-PF04 – R.M. of Dauphin

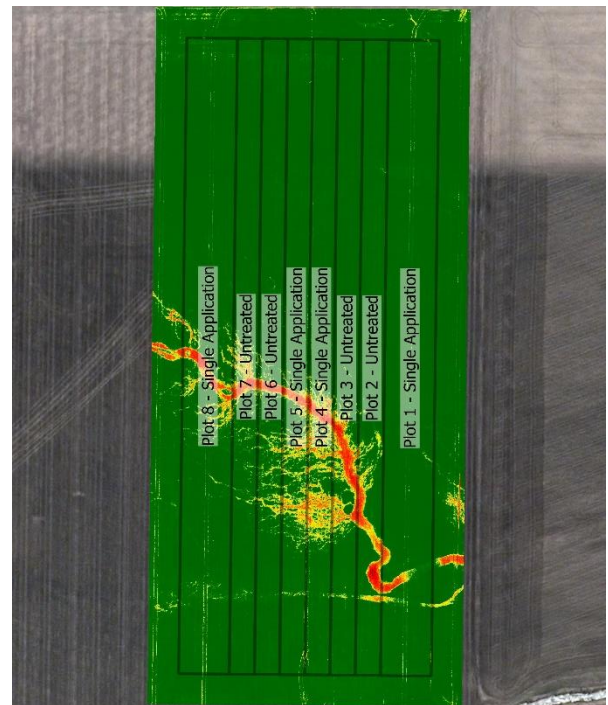
**Objective:** Quantify the agronomic and economic impacts of a single foliar fungicide application in field peas

**Summary:** The pre-spray check (V12) did not indicate an application of fungicide was necessary. At R3, our post-fungicide application disease rating indicated that foliar and stem ascochyta were present at very low levels. There was no significant yield difference between peas with and without a single application of Cotegra. As a result, profit/ac in the treated area of the trial decreased by the cost of the fungicide application.

### Trial Information

<b>Treatment</b>	Cotegra
<b>Application Timing</b>	Early Flower
<b>Application Date</b>	June 30
<b>Application Rate</b>	280 ml/ac
<b>Application Method</b>	Broadcast
<b>Soil Texture</b>	Clay to Clay Loam
<b>Previous Crop</b>	Wheat
<b>Tillage</b>	Conventional
<b>Seeding Date</b>	May 5
<b>Variety</b>	AAC Carver
<b>Seeding Rate</b>	198 lbs/ac
<b>Row Spacing</b>	10"
<b>Plant Stand @ R4</b>	289 000 plants/ac
<b>Harvest Date</b>	August 6

### NDVI Field Image July 9



### Precipitation (mm)

	May	Jun	Jul	Aug	Total
<b>Rainfall</b>	23.9	70.9	30.3	89.5	214.6
<b>Normal</b>	54.3	86.7	73.2	63.3	277.5
<b>% Normal</b>	44%	82%	41%	141%	77%

### Results from the Pre-Spray Check (V12)

Category	Average Rating <sup>†</sup>	Explanation
<b>Crop Canopy</b>	20	Normal (~8 plants/ft <sup>2</sup> ) to dense
<b>Leaf Wetness/Humidity @ 12 pm</b>	0	No leaf wetness
<b>5-Day Weather Forecast</b>	10	Unpredictable
<b>Ascochyta Symptoms on Peas</b>	3.3	Less than 20% of plants showing symptoms
<b>Total Score</b>	<b>33.3</b>	<b>No application recommended</b>

<sup>†</sup> Ratings taken at six locations in the field and average together to assess overall field risk



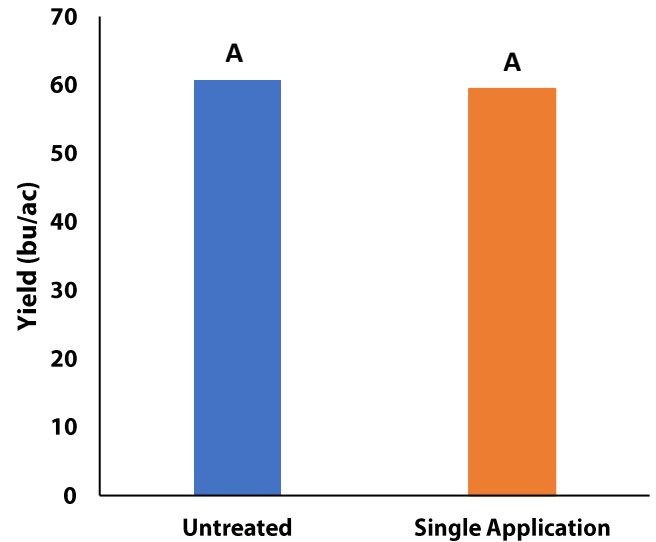
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### Summary of Disease Rating (R3)<sup>†</sup>

	Foliar Ascochyta		Stem Ascochyta	
	UN	SGL	UN	SGL
<b>Incidence</b>	3%	0%	3%	0%
<b>Severity</b>	1.0	1.0	1.0	1.0

<sup>†</sup> SGL=Single application; Foliar ascochyta 1 – 7 rating scale, stem ascochyta 1-7 rating scale

### Yield by Treatment



### Overall Yield & Economics

	Mean (bu/ac)	Cost <sup>†</sup>	Change in Profit/ac <sup>††</sup>
<b>Single Application</b>	59.4	\$17/ac	-\$17/ac
<b>Untreated</b>	60.7		
<b>Yield Difference</b>	-1.3		
<b>P-Value</b>	0.3706		
<b>CV</b>	5.7%		
<b>Significance</b>	<b>No</b>	<b>Economic</b>	<b>No</b>

<sup>†</sup> Estimated cost; represents product only, does not include application cost

<sup>††</sup> 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.