

## Pea Fungicide Trial

**Trial ID: 2020-PF04 – R.M. of Grassland**

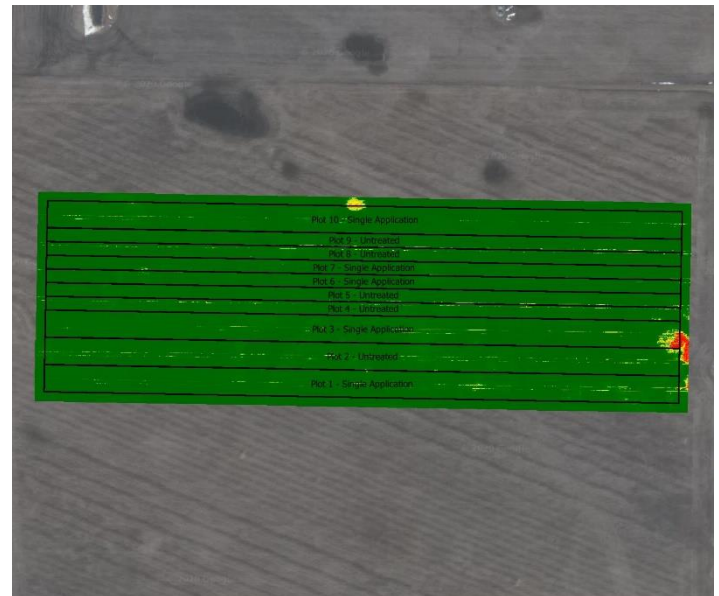
**Objective:** Quantify the agronomic and economic impacts of a single foliar fungicide application in field peas

**Summary:** There was no significant yield response to a single application of MIRAVis Neo 300SE compared to no application. However, there was a replication that did not behave consistently in yield difference with the remainder of the reps. There was no basis for removing this replication from the dataset, but it is important to note that its inclusion is what led to the lack of significant yield difference at this trial. 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>	MIRAVis Neo 300SE
<b>Application Timing</b>	R1
<b>Application Date</b>	July 3
<b>Application Rate</b>	405 ml/ac
<b>Application Method</b>	Broadcast
<b>Soil Texture</b>	Loam
<b>Previous Crop</b>	Canola
<b>Tillage</b>	Zero Till
<b>Seeding Date</b>	May 23
<b>Variety</b>	AAC Carver
<b>Seeding Rate</b>	185 lbs/ac
<b>Row Spacing</b>	10"
<b>Plant Stand @ R3</b>	256 000 plants/ac
<b>Harvest Date</b>	August 24

### NDVI Field Image July 24



### Precipitation (mm)

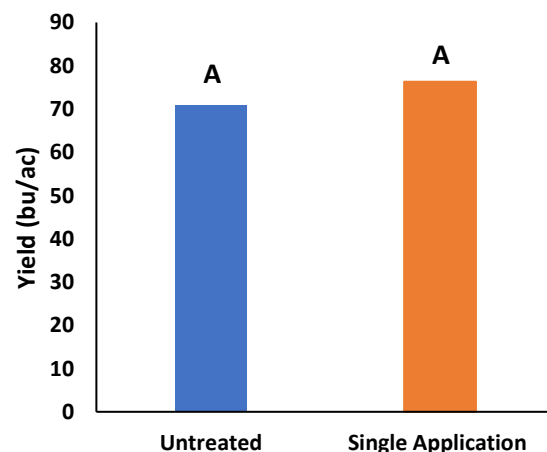
	May	June	July	August
<b>Normal</b>	61.1	89.8	68.3	72.3
<b>Rainfall</b>	16.8	54.2	39.9	22

### Summary of Disease Rating (R3) †

	Foliar Ascochyta		Stem Ascochyta	
	UN	SGL	UN	SGL
<b>Incidence</b>	100%	100%	100%	100%
<b>Severity</b>	2.2	1.8	2.2	1.8

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

### Yield by Treatment





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### Overall Yield & Economics

	Mean (bu/ac) †	Cost ††	Change in Profit/ac †††
<b>Single Application</b>	76.3	\$20/ac	-\$20/ac
<b>Untreated</b>	70.8		
<b>Yield Difference</b>	5.5		
<b>P-Value</b>	0.0700		
<b>CV</b>	6.0%		
<b>Significance</b>	<b>No †</b>	<b>Economic</b>	<b>No</b>

† One rep did not behave the same as the rest of the trial, leading to the lack of significant yield response

†† 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.