

# Pea Fungicide Trial

**Trial ID: 2022-PF03 – R.M. of Lorne**

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

**Summary:** The pre-spray check (V6) did not indicate an application of fungicide was necessary. Foliar ascochyta and white mould were present throughout the trial. There was no significant yield difference between peas with a single application versus a double application of foliar fungicide. As a result, profit/ac in the treated area of the trial decreased by the additional cost/ac of a double fungicide application.

## Trial Information

<b>Treatment</b>	Zolera FX (single vs double)
<b>Application Timing</b>	R2
<b>Application Date</b>	July 8
<b>Application Rate</b>	Broadcast
<b>Application Method</b>	Zolera FX
<b>Soil Texture</b>	Clay Loam
<b>Previous Crop</b>	Canola
<b>Tillage</b>	Zero Till
<b>Seeding Date</b>	May 25
<b>Variety</b>	CDC Lewochko
<b>Seeding Rate</b>	180 lbs/ac
<b>Row Spacing</b>	10"
<b>Plant Stand @ R3</b>	281,000 plants/ac
<b>Harvest Date</b>	September 9

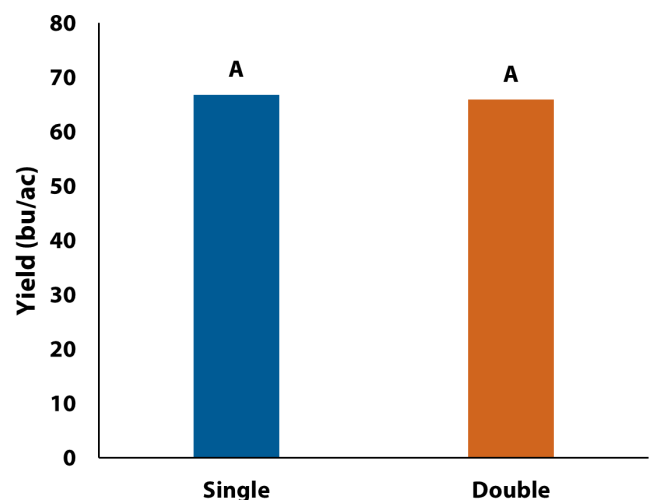
## NDVI Field Image July 25



## Precipitation (mm)

	May	Jun	Jul	Aug	Total
<b>Rainfall</b>	93.1	33.2	111.2	54.4	291.9
<b>Normal</b>	54.7	83.2	78.6	65.1	281.6
<b>% Normal</b>	170%	40%	141%	84%	104%

## Yield by Treatment



## Summary of Disease Rating (R3) †

	Foliar Ascochyta		Stem Ascochyta		White Mould	
	SGL	DBL	SGL	DBL	SGL	DBL
<b>Incidence</b>	75%	50%	0%	0%	40%	78%
<b>Severity</b>	1.8	1.5	1.0	1.0	0.5	0.9

† SGL=single application, DBL = double application; Foliar and stem ascochyta are rated on a scale of 1 (no symptoms) to 7 (stunted/dead plants); White mould is rated on a scale from 0 (no symptoms) to 5 (dead plants).



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### Overall Yield & Economics

	Mean (bu/ac)	Cost <sup>†</sup>	Change in Profit/ac <sup>††</sup>
<b>Double Application</b>	65.9	\$37/ac	-\$18.50/ac
<b>Single Application</b>	66.8	\$18.50/ac	
<b>Yield Difference</b>	-0.9		
<b>P-Value</b>	0.7732		
<b>CV</b>	7.4%		
<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.