Pea Fungicide Trial

Trial ID: 2022-PF13 – R.M. of Louise

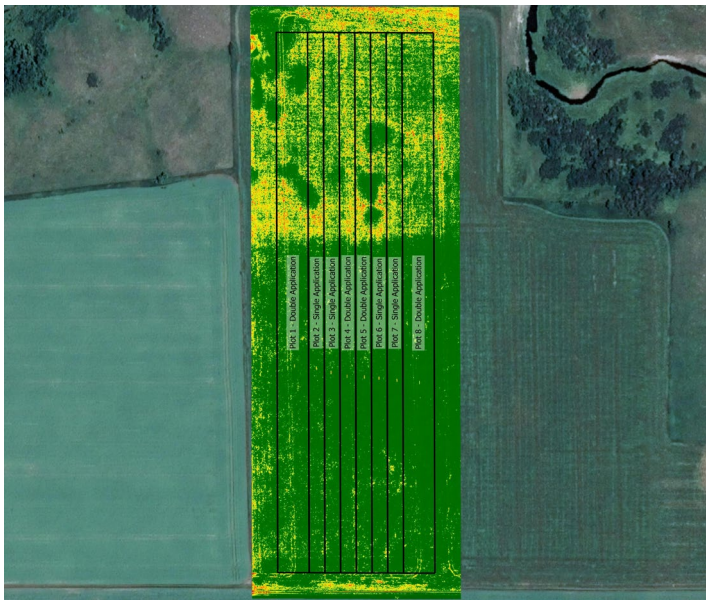
Objective: Quantify the agronomic and economic impacts of a single vs. double foliar fungicide application in field peas.

Summary: Foliar and stem ascochyta were moderately present throughout the trial, though the ratings were lower in peas with double applications compared to peas with a single application. Regardless, there was no significant yield difference between peas with a double application compared to those with a single application. As a result, profit/ac in the treated area of the trial decreased by the cost/ac of a double fungicide application.

Trial Information

Treatment	Lance WDG
Application Timing	R2
Application Date	July 30
Application Rate	33 ac/case
Application Method	Broadcast
Soil Texture	Clay Loam
Previous Crop	Oats
Tillage	Zero Till
Seeding Date	May 30
Variety	CDC Lewochko
Seeding Rate	240 lbs/ac
Row Spacing	7.5″
Plant Stand @ R4	261,000 plants/ac
Harvest Date	September 4

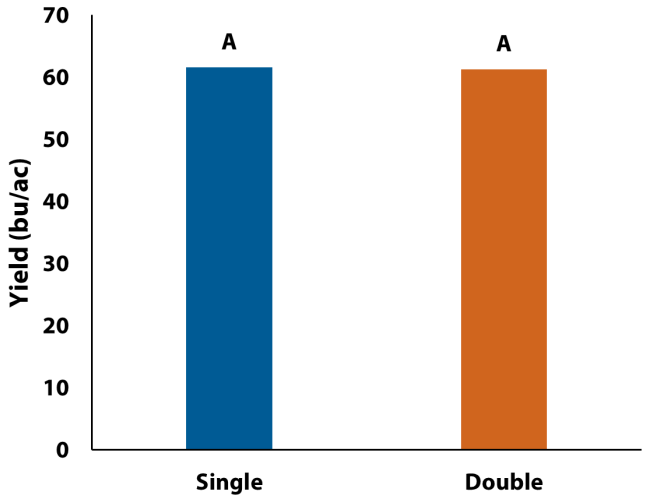
NDVI Field Image August 13



Precipitation (mm)

	May	Jun	Jul	Aug	Total
Rainfall	129.1	42.5	115	43	329.6
Normal	61.1	89.8	68.3	72.3	291.5
% Normal	211%	47%	168%	59%	113%

Yield by Treatment



Summary of Disease Rating (R4)†

	Foliar Ascochtya		Stem Ascochyta	
	Single	Double	Single	Double
Incidence	35%	15%	70%	55%
Severity	1.4	1.2	2.3	2.2

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

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Overall Yield & Economics

	Mean (bu/ac)	Cost†	Change in Profit/ac††
Double Application	61.3	$37/ac	-$18.50/ac
Single Application	61.6	$18.50/ac	
Yield Difference	-0.3		
P-Value	0.7355		
CV	1.8%		
Significance	**No**	**Economic**	**No**

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

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

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