Pea Fungicide Trial

Trial ID: 2025-PF05 – R.M. of Minitonas – Bowsman

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

Summary: Ascochyta/Mycosphaerella (A/M) blight was prevalent throughout the trial. Disease pressure was similar between treatments. There was no significant yield difference between peas with a double application, compared to those with a single application. As a result, profit/ac decreased by the increased cost of the double application.

Trial Information

Treatment	Single vs. Double Application of Delaro 325SC®
Application Timing	App. 1=R2, App. 2=R3
Application Date	App. 1 = 7/8/2025 App. 2= 7/19/2025
Application Rate	0.36 L/ac
Application Method	Broadcast
Soil Texture	Clay Loam
Previous Crop	Wheat
Tillage	Conventional Tillage
Seeding Date	5/12/2025 - 5/14/2025
Variety	ACC Chrome
Seeding Rate	210 lbs/ac
Row Spacing	12 in.
Plant Stand @ R3	242,917 plants/ac

Precipitation (mm)

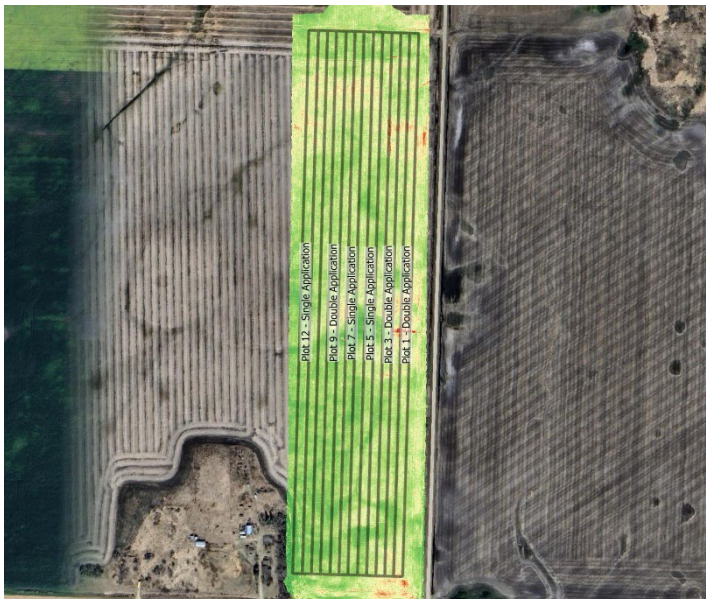
	May	June	July	Aug	Total
Rainfall	16.9	32.9	10.9	144.7	205.4
Normal	47.2	81.4	70.83	60.72	260.15
% Norm	36%	40%	15%	238%	79%

Summary of Disease Rating (R3)ǂ

	Foliar A/M		Stem A/M	
	Single	Double	Single	Double
Incidence (%)	100	100	68	82
Severity	2.6	2.6	1.7	1.9

ǂ Single=Single application, Double=Double application; Foliar and stem Ascochyta/Mycosphaerella (A/M) 1 – 7 rating scale where 1 is least severe and 7 is most severe. Incidence = percent of plants infected.

NDVI Field Image July 23



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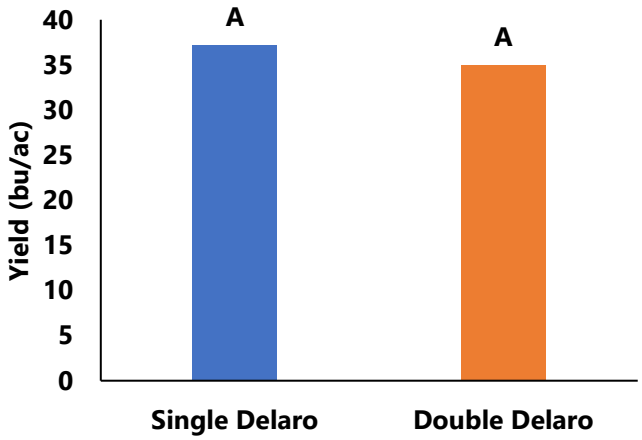
Yield by Treatment



Overall Yield & Economics

	Mean (bu/ac)	Cost ǂ	Change in Profit ǂ ǂ
Single Application	37.2	$17.50/ac	
Double Application	35	$35.00/ac	-$17.50/ac
Yield Difference	-2.2		
P-Value	0.3903		
CV	11.5%		
Significance	**No**	**Economic**	**No**

ǂ Based on an estimated fungicide product cost of $15-$20/ac, product cost only, does not include application cost

ǂ ǂ 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 second fungicide application.

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