

Pea Fungicide Trial

Trial ID: 2024-PF08 – R.M. of Dauphin

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

Summary: Foliar and stem infections of Ascochyta/Mycosphaerella blight were prevalent throughout this trial at flat pod stage (R3). There was a slight reduction in disease severity with the double application treatment. 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 second application.

Trial Information

Treatment	Delaro vs Delaro - Zetigo PRM
Application Timing	R3 & R3
Application Date	July 7 (Delaro) July 17 (Zetigo)
Application Rate	Delaro 30 ac/jug Zetigo 24 ac/jug
Application Method	Broadcast
Soil Texture	Loamy Clay Loam
Previous Crop	Wheat
Tillage	Zero Till
Seeding Date	May 15
Variety	AAC Carver
Seeding Rate	198 lbs/ac
Row Spacing	10"
Plant Stand @ R4	244,000
Harvest Date	August 19

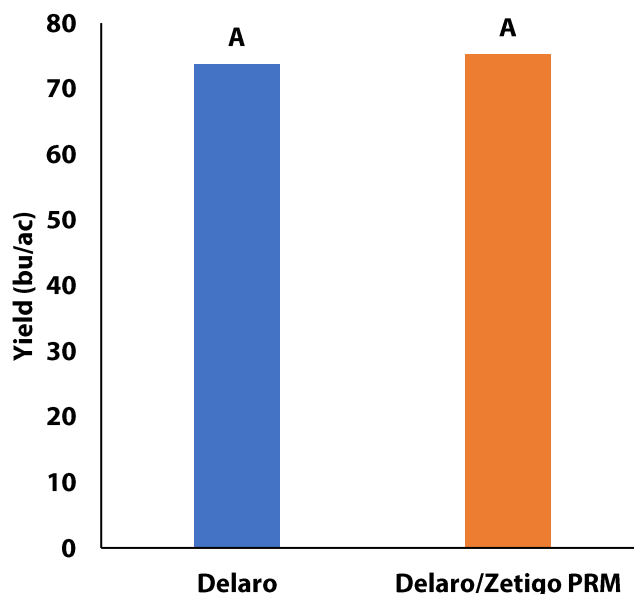
Trial Layout



Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	97.1	75.5	69.6	61	303.2
Normal	54.3	86.7	73.2	63.3	277.5
% Norm	179%	87%	95%	96%	109%

Yield by Treatment



Summary of Disease Rating (R3)[†]

	Foliar A/M		Stem A/M	
	DBL	SGL	DBL	SGL
Incidence	95%	100%	58%	85%
Severity	2.0	2.7	1.7	2.1

[†] SGL=Single application, DBL=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.



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Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit ^{††}
Double Application	75.2	\$40/ac	-\$20/ac
Single Application	73.7	\$20/ac	
Yield Difference	1.5		
P-Value	0.735		
CV	7.7%		
Significance	No	Economic	No

[†] Based on an estimated fungicide product cost. 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 second fungicide application.