

# Pea Fungicide Trial

Trial ID: 2024-PF09 – R.M. of Mountain

**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 R3 (flat pod). 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 second application.

## Trial Information

<b>Treatment</b>	Miravis Neo vs Miravis Neo & Delaro
<b>Application Timing</b>	Miravis Neo First Flower Delaro Full Flower
<b>Application Date</b>	Miravis Neo July 4 Delaro July 19
<b>Application Rate</b>	MN 505 ml/ac & D 830 ml/ac
<b>Application Method</b>	Broadcast
<b>Soil Texture</b>	Very Fine Sandy Loam
<b>Previous Crop</b>	LL Canola
<b>Tillage</b>	Conventional Till
<b>Seeding Date</b>	May 7
<b>Variety</b>	AAC Carver
<b>Seeding Rate</b>	210 lbs/ac
<b>Row Spacing</b>	10"
<b>Plant Stand @ R4</b>	316,000 plants/ac
<b>Harvest Date</b>	August 23



## Precipitation (mm)

	May	June	July	Aug	Total
<b>Rainfall</b>	77.9	84.5	26.1	16.2	204.7
<b>Normal</b>	46.2	82.6	78.8	63.3	270.9
<b>% Norm</b>	169%	102%	33%	26%	76%

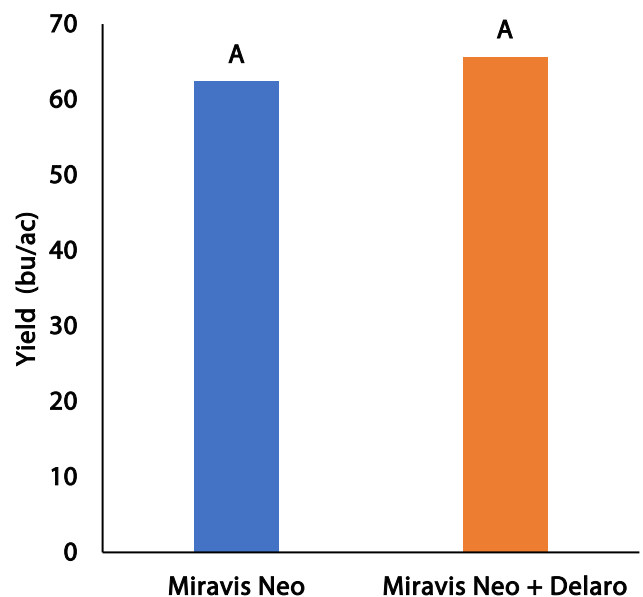
## Summary of Disease Rating (R3) †

	Foliar A/M		Stem A/M	
	DBL	SGL	DBL	SGL
<b>Incidence</b>	100%	100%	82%	87%
<b>Severity</b>	4.3	4.3	2.2	2.2

† SGL=Single 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.

## Trial Layout

## Yield by Treatment





**on-farm network**  
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### Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit††
Double Application	65.7	\$40/ac	-\$20/ac
Single Application	62.4	\$20/ac	
Yield Difference	3.3		
P-Value	0.083		
CV	4.1%		
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.