Pea Fungicide Trial

Trial ID: 2023-PF07 – R.M. of Rockwood

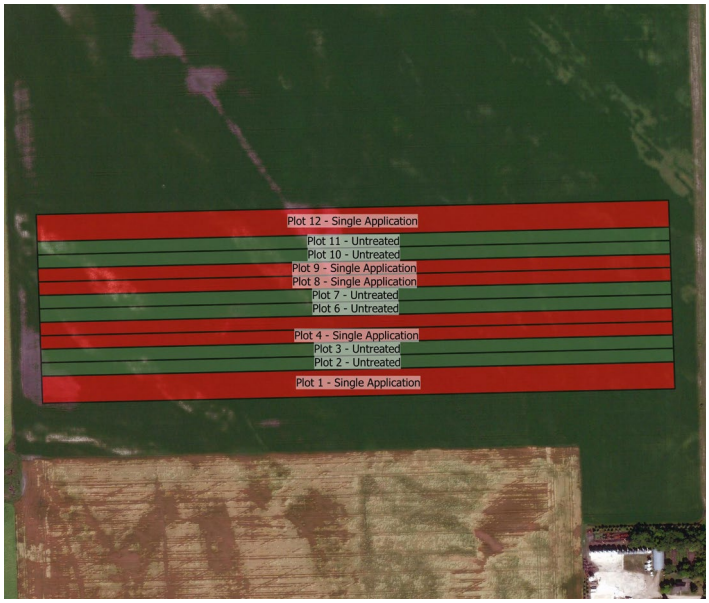
Objective: Quantify the agronomic and economic impacts of a single foliar fungicide application in field peas.

Summary: Ascochyta/Mycosphaerella blight was prevalent throughout the trial. There was no significant yield difference between peas with and without a single application of Dyax. As a result, profit/ac in the treated area of the trial decreased by the cost/ac of fungicide application.

Trial Information

Treatment	Dyax
Application Timing	R1
Application Date	July 5
Application Rate	160mL/ac
Application Method	Broadcast
Soil Texture	Very Fine Sandy Loam
Previous Crop	Wheat
Tillage	Conventional
Seeding Date	May 15
Variety	AAC Carver
Seeding Rate	180 lbs/ac
Row Spacing	10”
Plant Stand @ R3	254 00 plants/ac
Harvest Date	August 17

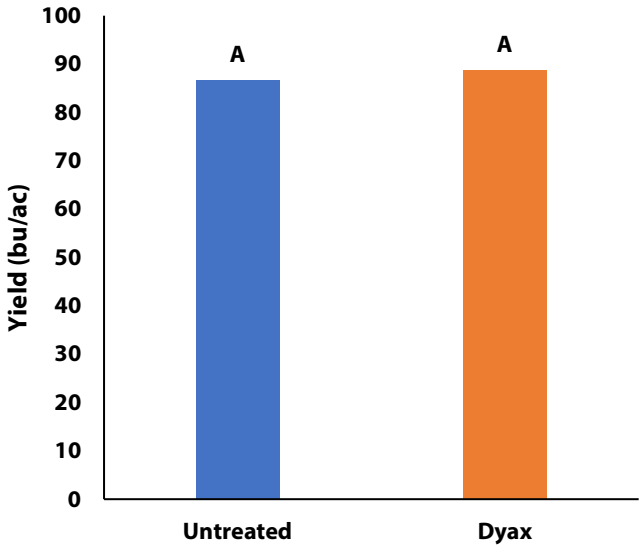
Field Image



Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	11.8	47.4	47	48.4	154
Normal	53.8	92	66	63.3	276
% Norm	22%	52%	70%	76%	56%

Yield by Treatment



Summary of Disease Rating (R3)ǂ

Ten symptomatic plants were randomly selected for resistance testing from untreated areas of the field. 4.8% of the Ascochyta/ Mycosphaerella blight population at this trial was resistant to group 11 fungicides.

	Foliar A/M		Stem A/M	
	UNTRT	SGL	UNTRT	SGL
Incidence	100%	100%	67%	50%
Severity	3.7	3.4	1.7	1.6

ǂ SGL=Single application; Foliar and stem Ascochyta/ Mycosphaerella (A/M) 1 – 7 rating scale; Incidence= percent of plants infected.

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Results from the Pre-Spray Check (V11)

Category	Average Rating†	Explanation
Crop Canopy	8	Thin- High weed pressure, low yield expected
Leaf Wetness/Humidity @ 12 pm	0	No leaf wetness
5-Day Weather Forecast	0	Dry
Ascochyta Symptoms on Peas	6	Less than 20% of plants showing symptoms
Total Score	**14**	**No application recommended**

† Ratings taken at six locations in the field and average together to assess overall field risk

Overall Yield & Economics

	Mean (bu/ac)	Cost†	Change in Profit††
Single Application	88.8	$10-$23/ac	-$10-$23/ac
Untreated	86.7		
Yield Difference	2.1		
P-Value	0.19		
CV	2.7%		
Significance	**No**	**Economic**	**No**

† Based on an estimated fungicide product cost of $10-$23/ac, 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 declined by the cost of the fungicide application.