Pea Fungicide Trial

Trial ID: 2021-PF03 – R.M. of Dauphin

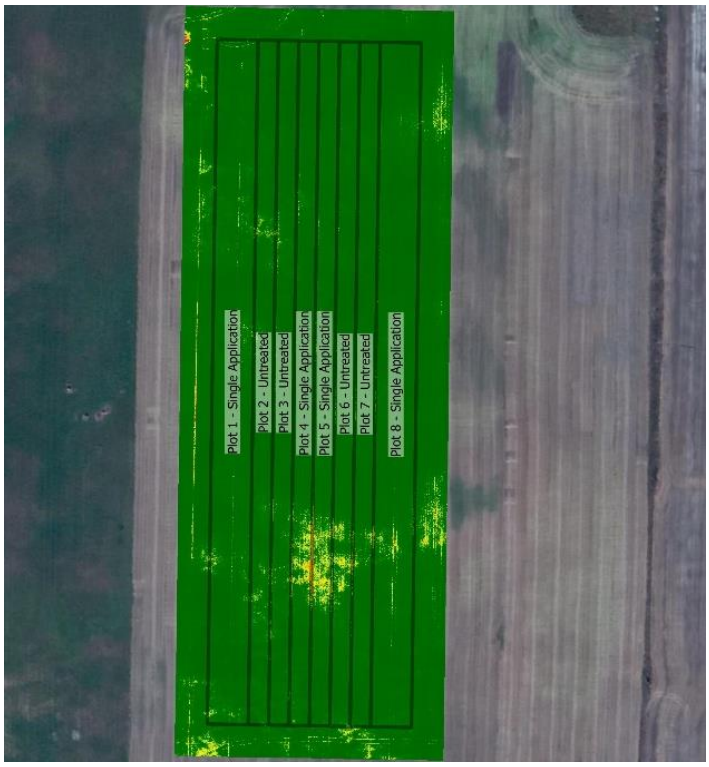
Objective: Quantify the agronomic and economic impacts of a single foliar fungicide application in field peas

Summary: The pre-spray check (R1) did not indicate an application of fungicide was necessary. Foliar ascochyta was prevalent throughout the trial, at relatively low severity, post-fungicide application, at R3. There was no significant yield difference between peas with and without a single application of Cotegra. As a result, profit/ac in the treated area of the trial decreased by the cost of the fungicide application.

Trial Information

Treatment	Cotegra
Application Timing	Early Flower
Application Date	June 30
Application Rate	280 ml/ac
Application Method	Broadcast
Soil Texture	Loamy Fine Sand
Previous Crop	Wheat
Tillage	Conventional
Seeding Date	May 1
Variety	CDC Inca
Seeding Rate	168 lbs/ac
Row Spacing	10"
Plant Stand @ R4	204 000 plants/ac
Harvest Date	August 8

NDVI Field Image July 9



Precipitation (mm)

	May	Jun	Jul	Aug	Total
Rainfall	34.6	74.1	74.1	128	310.6
Normal	51.8	81.9	76.7	71.6	282
% Normal	67%	90%	97%	178%	110%

Results from the Pre-Spray Check (R1)

Category	Average Rating[ǂ]	Explanation
Crop Canopy	15	Normal (~8 plants/ft^2)
Leaf Wetness/Humidity @ 12 pm	0	No leaf wetness
5-Day Weather Forecast	10	Unpredictable
Ascochyta Symptoms on Peas	3.3	Less than 20% of plants showing symptoms
Total Score	**28.3**	**No application recommended**

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

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Pea Fungicide Trial

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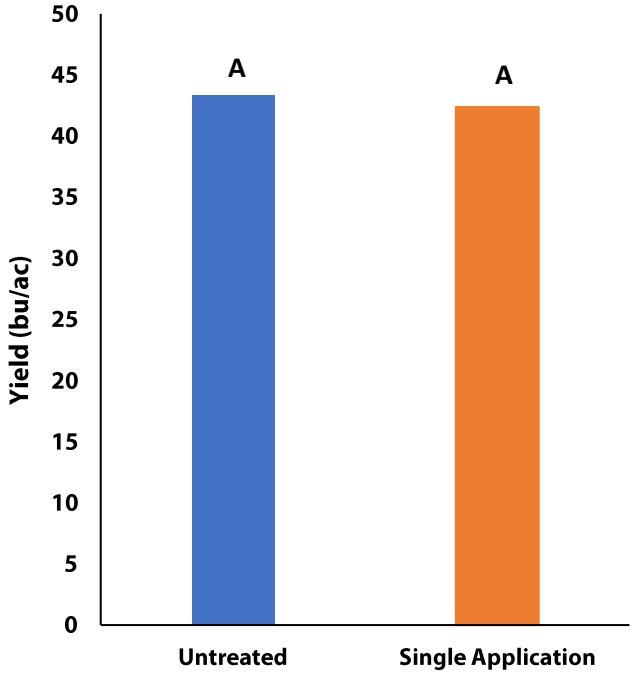
Summary of Disease Rating (R3)†

	Foliar Ascochtya		White Mould	
	UN	SGL	UN	SGL
Incidence	90%	95%	0%	3%
Severity	2.0	1.8	0.0	0.0

† SGL=Single application; Foliar ascochyta 1 – 7 rating scale, white mould 0-5 rating scale

Yield by Treatment



Observations (R3)

Foliar ascochyta was present throughout the trial at relatively low severity.

Overall Yield & Economics

	Mean (bu/ac)	Cost†	Change in Profit/ac††
Single Application	42.4	$17/ac	-$17/ac
Untreated	43.4		
Yield Difference	-1.0		
P-Value	0.7571		
CV	26%		
Significance	**No**	**Economic**	**No**

† Estimated cost; represents product 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 fungicide application.

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