

Pea Fungicide Trial

Trial ID: 2022-PF11 – R.M. of Morris

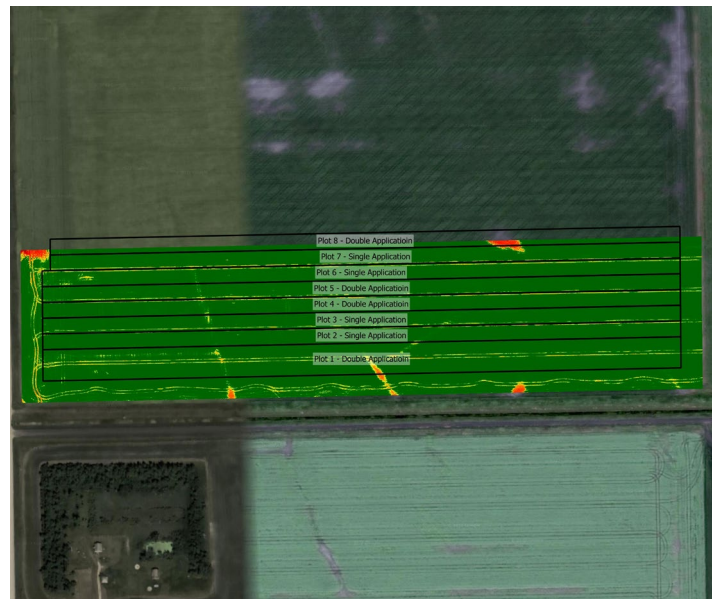
Objective: Quantify the agronomic and economic impacts of a single vs. double foliar fungicide application in field peas.

Summary: The pre-spray check (R2) did not indicate an application of fungicide was necessary. Foliar ascochyta and white mould were present at very low incidence throughout the trial. There was no significant yield difference between peas with a single or a double fungicide application. As a result, profit/ac in the treated area of the trial decreased by the additional cost/ac of a double fungicide application.

Trial Information

Treatment	Cotegra (single vs double)
Application Timing	R1 / R3
Application Date	July 8 / July 22
Application Rate	35 ac/jug
Application Method	Broadcast / Aerial
Soil Texture	Clay
Previous Crop	Wheat
Tillage	Conventional
Seeding Date	May 28
Variety	AAC Carver
Seeding Rate	182 lbs/ac
Row Spacing	10"
Plant Stand @ R4	356,000 plants/ac
Harvest Date	September 10

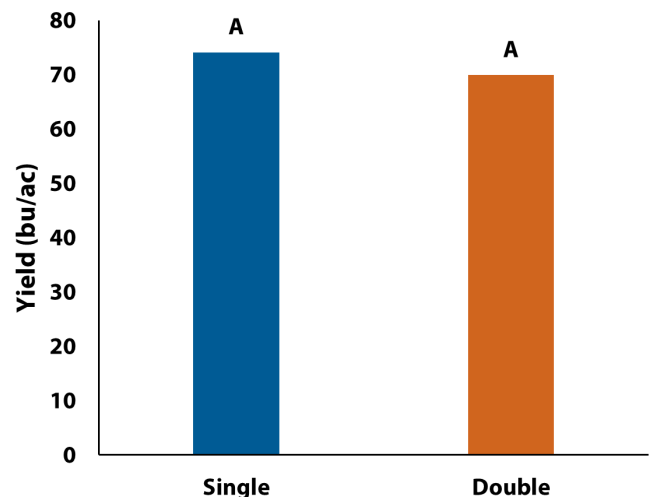
NDVI Field Image August 3



Precipitation (mm)

	May	Jun	Jul	Aug	Total
Rainfall	119.7	45	83.6	57	305.3
Normal	53.6	86.4	71.9	65.4	277.3
% Normal	223%	52%	116%	87%	110%

Yield by Treatment



Summary of Disease Rating (R4)†

	Foliar Ascochyta		Stem Ascochyta		White Mould	
	SGL	DBL	SGL	DBL	SGL	DBL
Incidence	23%	10%	0%	0%	5%	10%
Severity	1.2	1.1	1.0	1.0	0.1	0.1

† SGL=single application, DBL = double application; Foliar and stem ascochyta are rated on a scale of 1 (no symptoms) to 7 (stunted/dead plants); White mould is rated on a scale from 0 (no symptoms) to 5 (dead plants).



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Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac ^{††}
Double Application	69.9	\$37/ac	-\$18.50/ac
Single Application	74.1	\$18.50/ac	
Yield Difference	-4.2		
P-Value	0.2784		
CV	6.6%		
Significance	No	Economic	No

[†] Based on MB Agriculture 2022 *Cost of Production Guidelines* and industry prices; treatment cost only, does not include application cost.

^{††} Yields were not significantly different, therefore profit/ac decreased by the cost/ac of a fungicide treatment.