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Pea Fungicide Trial

Trial ID: 2022-PF10 – R.M. of Mountain

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

Summary: Severe disease throughout the trial prevented collection of ratings and plant counts. Regardless, there was a significant yield increase of 5.4 bu/ac for peas with a double fungicide application compared to peas with a single application. This yield increase was more than enough to pay for the cost/ac from a double application of fungicide.

Trial Information

Treatment	Dyax vs Dyax +Cotegra
Application Timing	Early Flower / Full Flower
Application Date	July 12 / July 25
Application Rate	280 ml/ac
Application Method	Broadcast
Soil Texture	Loamy Fine Sand
Previous Crop	LL Canola
Tillage	Conventional
Seeding Date	May 25
Variety	Carver
Seeding Rate	215 lbs/ac
Row Spacing	9.8"
Harvest Date	August 31

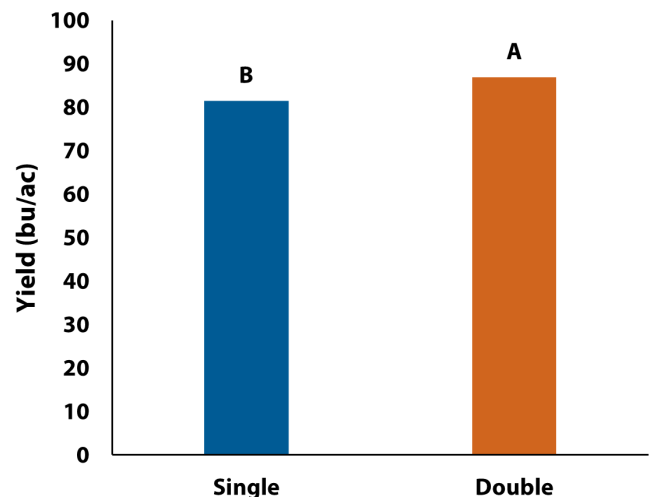
NDVI Field Image August 11



Precipitation (mm)

	May	Jun	Jul	Aug	Total
Rainfall	111.6	57	53.1	41.9	263.6
Normal	46.2	82.6	78.8	63.3	270.9
% Normal	242%	69%	67%	66%	97%

Yield by Treatment





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Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit/ac ^{††}	
			Long-Term Average (\$5.33-\$11.47/bu)	Current Conditions (\$11-\$13/bu)
Double Application	86.9	\$37/ac	\$9-\$41/ac	\$39-\$49/ac
Single Application	81.5	\$18.50/ac		
Yield Difference	5.4			
P-Value	0.0023			
CV	3.8%			
Significance	Yes	Economic	Yes	Yes

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

†† Change in profit/ac is calculated from profit gained or lost due to yield differences, treatment cost/ac, and market prices; Long-term average prices are based on Manitoba Agriculture's Historical Manitoba Crop Prices (2017-2021).