

Pea Fungicide Trial

Trial ID: 2020-PF06 – R.M. of Westlake-Gladstone

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

Summary: Foliar and stem ascochyta were prevalent throughout the trial at low levels. There was no significant yield difference between peas with and without a single application of foliar fungicide. Due to the lack of yield response, there was a decrease in profit/ac in the treated area of the trial, equivalent to the cost of the fungicide application.

Trial Information

Treatment	Dyax
Application Timing	R2
Application Date	July 3
Application Rate	160 ml/ac
Application Method	Broadcast
Soil Texture	Fine Sandy Loam
Previous Crop	Wheat
Tillage	Conventional
Seeding Date	May 15
Variety	AAC Chrome
Seeding Rate	200 lbs/ac
Row Spacing	10"
Plant Stand @ R3	213 000 plants/ac
Harvest Date	August 15

Precipitation (mm)

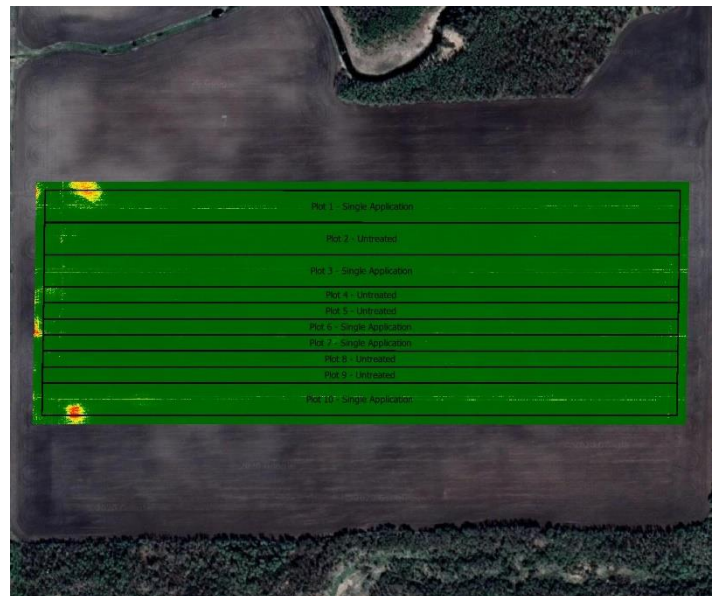
	May	June	July	August
Normal	49.7	76.9	61.7	64.3
Rainfall	6.9	92	59.6	44.1

Summary of Disease Rating (R3) †

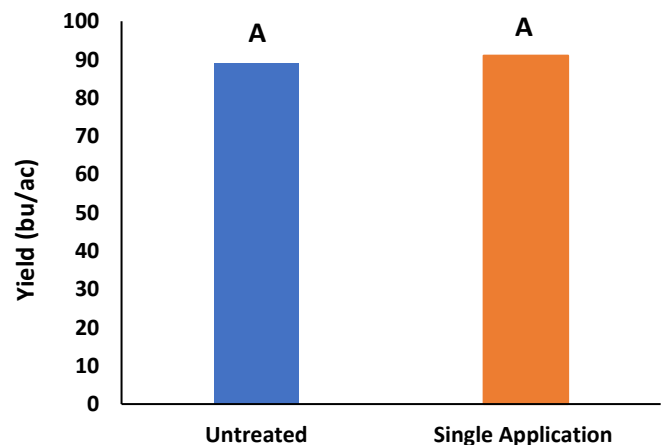
	Foliar Ascochyta		Stem Ascochyta	
	UN	SGL	UN	SGL
Incidence	100%	100%	100%	100%
Severity	2.5	2.0	2.7	2.0

† SGL=Single application; Foliar ascochyta 1 – 7 rating scale, stem ascochyta 1 – 7 rating scale

NDVI Field Image July 23



Yield by Treatment





Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit/ac ††
Single Application	91.0	\$20/ac	-\$20/ac
Untreated	89.1		
Yield Difference	1.9		
P-Value	0.3244		
CV	4.5%		
Significance	No	Economic	No

† Based on MB Agriculture 2020 Cost of Production Guidelines; 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 fungicide application.