

Faba Bean Fungicide Trial

Trial ID: 2020-FBF01 – R.M. of Swan Valley West

Objective: Quantify the agronomic and economic impacts of a single foliar fungicide application in faba beans

Summary: Foliar ascochyta and chocolate spot were prevalent throughout the trial. Yield of faba beans with a single application of Dyax was significantly greater than yield of untreated faba beans. Profit/ac increased as a result.

Trial Information

Treatment	Dyax
Application Timing	Flowering
Application Date	July 16
Application Rate	160 ml/ac
Application Method	Broadcast
Soil Texture	Clay
Previous Crop	Wheat
Tillage	Conventional
Seeding Date	May 2
Variety	Snowdrop
Seeding Rate	220 lbs/ac
Row Spacing	10"
Plant Stand @ R5	93 000 plants/ac
Harvest Date	September 28

Precipitation (mm)

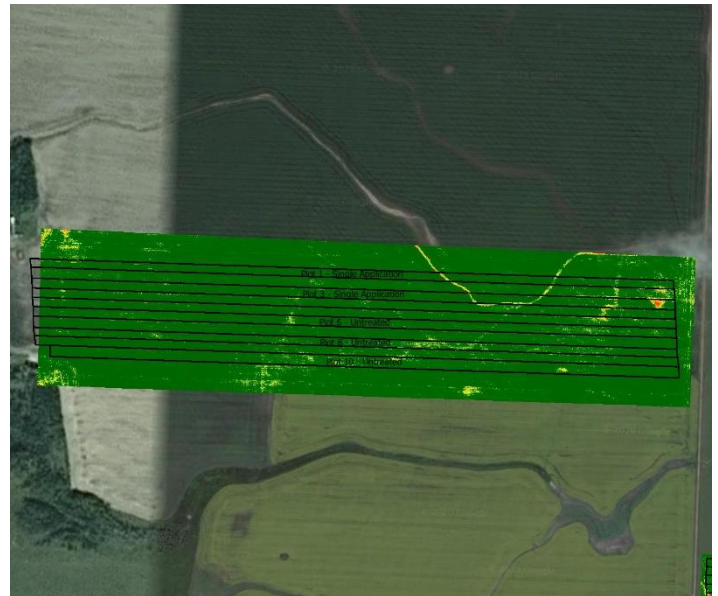
	May	June	July	August
Normal	45.4	84.2	85.6	68.3
Rainfall	11	86.6	143.7	66.9

Summary of Disease Rating (R5) †

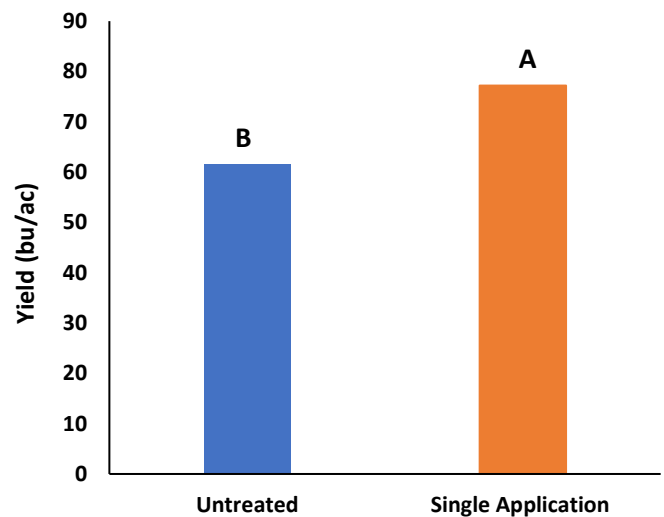
	Foliar Ascochyta		Chocolate Spot	
	UN	SGL	UN	SGL
Incidence	94%	90%	88%	80%
Severity	3.24	2.62	2.48	1.84

† SGL=Single application; Foliar ascochyta 1 – 7 rating scale, chocolate spot 1 – 5 rating scale

NDVI Field Image July 29



Yield by Treatment





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Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit/ac (@ faba bean price of \$7 - \$9/bu) ††
Single Application	77.2	\$14/ac	+\$96 to +\$127/ac
Untreated	61.5		
Yield Difference	15.7		
P-Value	0.0041		
CV	13%		
Significance	Yes	Economic	Yes

† Based on estimated cost for faba bean fungicide; product only, does not include cost of application

†† Change in profit/ac is calculated as the difference between the change in income/ac from a significant yield difference and the cost/ac of the fungicide. Profit is presented as a range across faba bean prices of \$7/bu to \$9/bu