

Faba Bean Fungicide Trial

Trial ID: 2021-FF03 – R.M. of Swan Valley West

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

Summary: Foliar ascochyta and chocolate spot were prevalent throughout the trial, at relatively low severity. There was no significant yield difference between faba beans with a single vs. double application of Dyax. As a result, profit/ac decreased by the increased cost of the double fungicide application.

Trial Information

Treatment	Dyax (Single vs Double)
Application Timing	Early flower/late flower
Application Date	July 1 / July 13
Application Rate	0.4 L/ha / 0.4 L/ha
Application Method	Broadcast
Soil Texture	Clay
Previous Crop	Canola
Tillage	Conventional
Seeding Date	April 29
Variety	Snowbird
Seeding Rate	240 lbs/ac
Row Spacing	10"
Plant Stand @ R5	166 000 plants/ac
Harvest Date	September 22

Precipitation (mm)

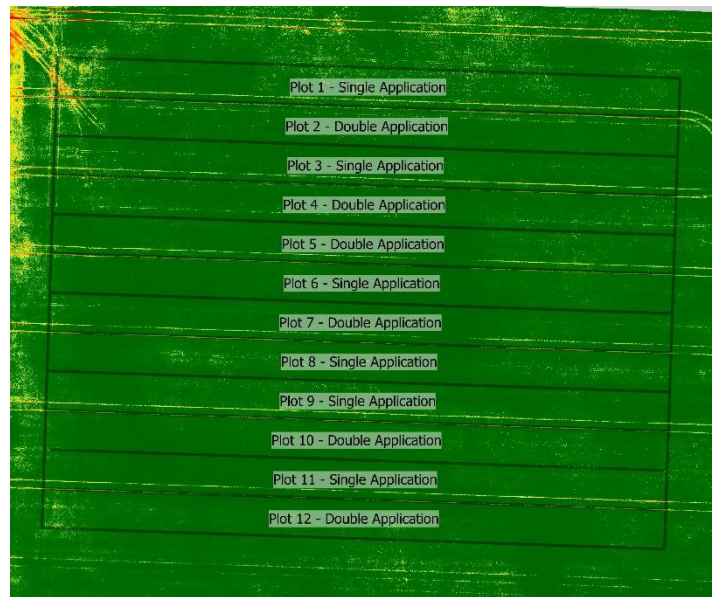
	May	Jun	Jul	Aug	Total
Rainfall	38.5	64.1	56.8	73.7	233.1
Normal	45.4	84.2	85.6	68.3	283.5
% Normal	85%	76%	66%	108%	82%

Summary of Disease Rating (R5)[†]

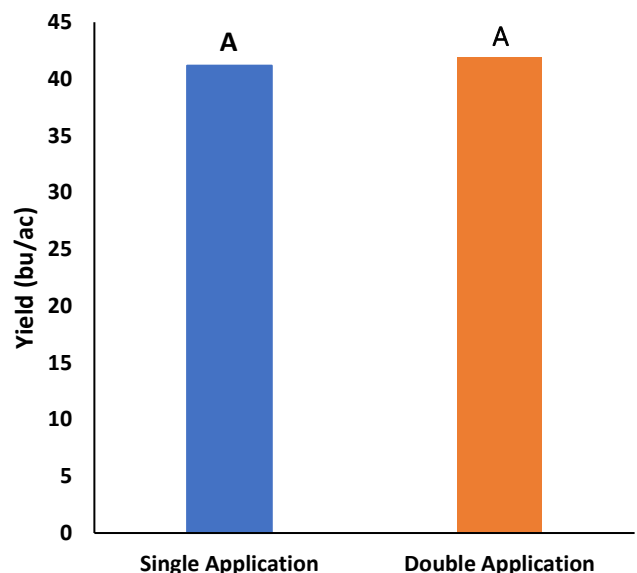
	Foliar Ascochyta		Chocolate Spot/Stemphylium	
	SGL	DBL	SGL	DBL
Incidence	82%	73%	55%	57%
Severity	2.1	1.9	1.6	1.6

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

NDVI Field Image July 28



Yield by Treatment





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Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac ^{††}
Double Application	41.9	\$34/ac	-\$17/ac
Single Application	41.2	\$17/ac	
Yield Difference	0.7		
P-Value	0.5751		
CV	8.2%		
Significance	No	Economic	No

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

†† Because yields were not significantly different, there is no increased income to offset the increased cost of the double application. Profit/ac declines by this increased cost as a result.