

Faba Bean Fungicide Trial

Trial ID: 2021-FF01 – R.M. of Riding Mountain

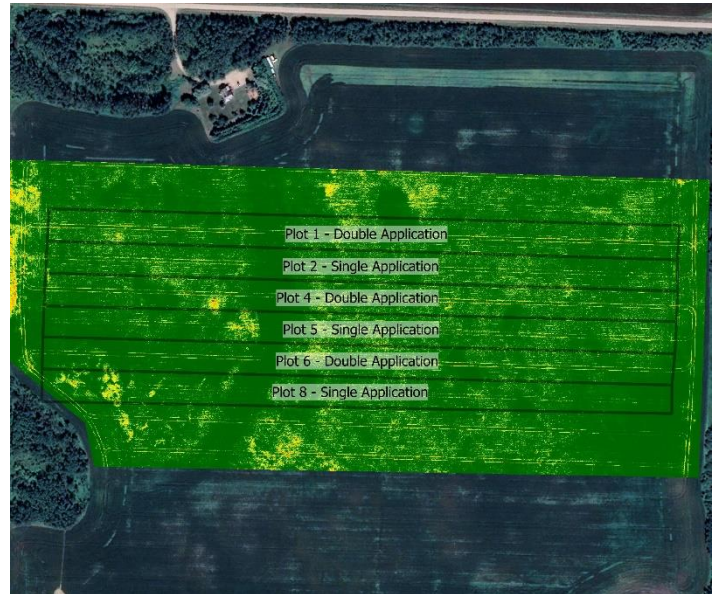
Objective: Quantify the agronomic and economic impacts of a double vs. single foliar fungicide application in faba beans

Summary: Foliar ascochyta and chocolate spot were prevalent throughout the trial at low to moderate severity. However, yield did not significantly differ between faba beans with a single vs. double application of Zolera ODX. As a result, profit/ac decreased by the cost increase of the double fungicide application.

Trial Information

Treatment	Zolera ODX (Single vs. Double)
Application Timing	Early flower / Full flower
Application Date	July 1 / July 16
Application Rate	230 ml/ac
Application Method	Broadcast
Soil Texture	Clay Loam
Previous Crop	Canola
Tillage	Conventional
Seeding Date	May 8
Variety	Navi
Seeding Rate	4 bu/ac
Row Spacing	10"
Plant Stand @ R4	137 000 plants/ac
Harvest Date	October 6

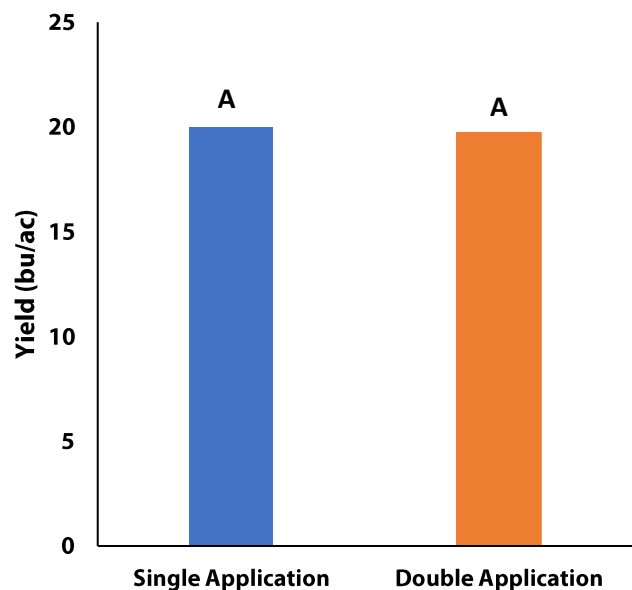
NDVI Field Image July 21



Precipitation (mm)

	May	Jun	Jul	Aug	Total
Rainfall	33.3	111	28.4	126	298
Normal	50.1	78.2	71.6	68	267.9
% Normal	66%	141%	40%	185%	111%

Yield by Treatment



Summary of Disease Rating (R4) †

	Foliar Ascochyta		Chocolate Spot/Stemphylium	
	SGL	DBL	SGL	DBL
Incidence	68%	58%	95%	100%
Severity	1.9	1.6	2.1	2.4

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



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Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac ^{††}
Double Application	19.7	\$34/ac	-\$17/ac
Single Application	20.0	\$17/ac	
Yield Difference	-0.3		
P-Value	0.8933		
CV	7.6%		
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.