Disclaimer:

This document is based on the results from an individual trial and may contain experimental use patterns that are currently off-label. **This document does not provide any interpretation and should not be taken as an endorsement of any unregistered use pattern**. Professional advice should be sought for specific recommendations to ensure access to the most up to date information and knowledge. *Any product referred to in this document must be used strictly as directed, and in accordance with all label or permit instructions. Always consult the label prior to use.*

Faba Bean Disease Management				
Trial ID: LB1710	Location: Investigator:	Cecil Plains Linda Bailey	Trial Year:	2017
Objective:	To compare	e fungicides for control of Faba bea	n rust	
Application Date:	18/07/2017			
Application Timing:	First Sign of Disease			
Crop Stage Majority at Application:	Flowering			
Planting Date:	25/03/2017			
Planting Equipment:	c	commercial Double Disc Planter		
Harvest Date:		28/09/2017		
Harvest Equipment:	Small Plot Header			
Keywords:	Faba bean, rust			

Pest S	cientific Name			Uromyces v	iciae-fabae		
Pest N	lame			Ru	ıst		
Crop I	Name			Faba	bean		Faba bean
Crop V	Variety			PBA N	lasma		PBA Nasma
Descr	iption		Severity	Incidence	Severity	Incidence	Yield
Part A	ssessed		Leaf 7	Leaf 7	Leaf 4	Leaf 4	
Asses	sment Date		8/08/2017	8/08/2017	30/08/2017	30/08/2017	28/09/2017
Asses	sment Type		LEAF AREA	PRESENCE	LEAF AREA	PRESENCE	YIELD
Asses	sment Unit		%	%	%	%	t/ha
Crop S	Stage Majority		78	78	86	86	
Treat	ment-Evaluation Interval		21 DAA	21 DAA	43 DAA	43 DAA	72 DAA
ARM	Action Codes		AA	AA	AA	AA	TY1
Trt	Treatment	Product					
No.	rreatment	Rate					
1	Untreated	-	18.1a	100.0a	15.1ab	100.0a	0.87a
2	Penncozeb 750 WG	1000g/ha	15.3a	98.9a	12.4ab	100.0a	0.87a
3	Penncozeb 750 WG	2200g/ha	19.3a	100.0a	18.8a	100.0a	0.92a
4	Sumisclex Broadacre	500ml/ha	12.3ab	98.9a	15.3ab	98.9a	0.79a
5	Tri-Base Blue	2970ml/ha	13.1ab	100.0a	18.0a	100.0a	0.64b
6	Unite	1400ml/ha	18.6a	100.0a	22.5a	100.0a	0.86a
7	Folicur	290ml/ha	8.0bc	83.3b	8.8b	83.3b	0.92a
8	Spin Flo	250ml/ha	13.4ab	100.0a	15.7ab	100.0a	0.85a
9	Spin Flo	500ml/ha	15.5a	98.9a	17.2ab	100.0a	0.79a
10	Aviator Xpro	500ml/ha	3.7cd	56.8c	2.1c	42.7c	0.85a
		LSD P=	5.63t	16.83t	7.91t	14.08t	0.143
	Treat	ment Prob.(F)=	0.0001	0.0001	0.0002	0.0001	0.0215
		CV=					14.6

Means followed by same letter do not significantly differ (P=.05, LSD)

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P (F) is significant at mean comparison OSL.

Faba Bean Disease Management

Trial ID:	LB1710	Location:	Cecil Plains	Trial Year:	2017
PRESENC Part Asses Leaf 7 = 7 Leaf 4 = 4 <u>Crop Stage</u> 78 = 80%	A = % Leaf area diseas $E = \% \text{ of Leaves infectors Sed 7^{th} \text{ Leaf from top of plate A^{th} Leaf from top of plate Context and the second Majority Sof Pods have reached Sof Pods ripe and dark$	ed ant ant I final length			
	omatic arcsine square 5555555*[5]	root % transformation			
DAA = Day	vs after Application				

Conclusions:

Treatments were applied at the first sign of disease (less than 10% leaf area affected).

The severity (leaf area affected) and incidence (presence) of rust was assessed on leaf 7 (3 weeks after treatment application) and leaf 4 (6 weeks after treatment application). Aviator Xpro provided the highest level of rust suppression at both assessments. Compared to the Untreated, rust severity was reduced by ~80-85% and incidence was reduced by ~45-55%.

Despite the level of disease suppression provided by Aviator Xpro, there was no impact on yield. No treatment significantly improved yield compared to the Untreated with the copper based fungicide (Tri-Base Blue) resulting in significantly lower yield than the Untreated and all other treatments.

Application Desc	ription
Application Date:	18/07/2017
Application Start Time:	11:15 AM
Application Stop Time:	1:15 PM
Application Method:	SPRAY
Application Timing:	DISEASE ONSET
Application Placement:	FOLIAR
Air Temperature, Unit:	22 C
% Relative Humidity:	55
Wind Velocity, Unit:	14 km/h
Wind Direction:	N
Dew Presence (Y/N):	No
Soil Moisture:	DRY
% Cloud Cover:	0
Next Moisture Occurred On:	4/08/2017

Application Equipment		
Application Equipment:	Quad bike	
Equipment Type:	Boom	
Operation Pressure, Unit:	300 kPa	
Nozzle Type:	AIXR	
Nozzle Size:	110015	
Nozzle Spacing, Unit:	50 cm	
Nozzles/Row:	8	
Boom Length, Unit:	4 m	
Boom Height, Unit:	50 cm	
Ground Speed, Unit:	7.2 km/h	
Carrier:	Water	
Spray Volume, Unit:	100 L/ha	