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.*

Knockdown Control of Wild Oats in Chickpeas							
Trial ID: RB1809	Location: Investigator:	Crooble T Richard Black	rial Year:	2018			
Objective:	To evaluate the efficacy	of flamprop-m-methyl (Oatmaster), alon application, at varied wild oat growth		ng early post-emergent			
Crop/variety:	Chickpea/ PBA HatTrick						
Planting Rate:	70kg/ha						
Row Spacing:	56.2cm						
Weed:	Wild Oats (Avena sterilis Iudoviciana)						
Application Code:	Α	В		С			
Application Date:	17/08/2018	30/08/2018		14/09/2018			
Application Timing: (Weed Growth Stage)	Tillering	G\$31		Oats in boot			
Weed Stage at Application:	4 Leaf - 2 Tiller	Start Stem Elongation – 2nd No	de	7 Node – mid Boot			
Application Volume:	100 L/ha						
Weed Population:	0.6/m ²						
Keywords:	Wild oats, knockdown, chickpea						

NB: Flamprop-m-methyl is only registered for selective spray topping of wild oats in chickpeas. Application should be on wild oats at stem elongation to booting. Chickpea crop stage should be prior to commencement of flowering.

Pest S	cientific Name				Avena steri	ilis ludoviciana			
Pest N	ame			Wild Oat					
Description Assessment Date Assessment Type			30/08/2018 BURNDOWN %	14/09/2018 BURNDOWN %	Surviving Plants 19/10/2018	Panicles 19/10/2018			
					COUNT	COUNT			
Assessment Unit		/m ²			/m ²				
Pest S	tage Majority			30	40	69	69 63 DAA		
	nent-Evaluation Interv	ral		13 DAA	28 DAA	63 DAA			
ARM A	Action Codes			AL	AA	AA T1	AA T2		
Trt No.	Treatment	Product Rate	Appln. Code						
1	Status	500ml/ha	A	19abc	53ab	0.0b	0.1b		
	Liase	1% v/v							
	Uptake	0.5% v/v							
2	Status	500ml/ha	А	14bc	35bc	0b	0b		
	Verdict 520	100ml/ha							
	Liase	1% v/v							
	Uptake	0.5% v/v							
3	Oatmaster	1250ml/ha	А	0d	9cd	0.6a	3.2a		
	Uptake	0.5% v/v							
4	Oatmaster	1875ml/ha	А	0d	1d	0.7a	5.7a		
	Uptake	0.5% v/v							
5	Oatmaster	1250ml/ha	В		3d	1.0a	7.4a		
	Uptake	0.5% v/v							
6	Oatmaster	1875ml/ha	В		1d	0.6a	4.2a		
	Uptake	0.5% v/v							
7	Oatmaster	1250ml/ha	С			0.4a	3.0a		
	Uptake	0.5% v/v							
8	Oatmaster	1875ml/ha	С			0.7a	6.0a		
	Uptake	0.5% v/v							

Knockdown Control of Wild Oats in Chickpeas

Trial ID:	RB1809	Location:	Crooble	Trial Year:	2018

Pest Scientific Name Pest Name Description Assessment Date Assessment Type Assessment Unit Pest Stage Majority			Avena sterilis ludoviciana						
			Wild Oat						
					Surviving Plants	Panicles			
			30/08/2018	14/09/2018	19/10/2018	19/10/2018			
			BURNDOWN % 30	BURNDOWN %	COUNT	COUNT			
					m ²	/m²			
				40	69	69			
Treatn	nent-Evaluation Interv	val		13 DAA	28 DAA	63 DAA	63 DAA		
ARM A	Action Codes			AL	AA	AA T1	AA T2		
Trt		Product	Appln.						
No.	Treatment	Rate	Code						
9	Status	500ml/ha	А	26ab	40b	0.0b	0.1b		
	Liase	1% v/v	А						
	Uptake	0.5% v/v	А						
	Oatmaster	1875ml/ha	В						
	Uptake	0.5% v/v	В						
10	Status	500ml/ha	А	34a	67ab	0.0b	0.1b		
	Verdict 520	100ml/ha	А						
	Liase	1% v/v	А						
	Uptake	0.5% v/v	А						
	Oatmaster	1875ml/ha	В						
	Uptake	0.5% v/v	В						
11	Status	500ml/ha	А	13c	45b	0b	0b		
	Liase	1% v/v	А						
	Uptake	0.5% v/v	А						
	Oatmaster	1875ml/ha	С						
	Uptake	0.5% v/v	С						
12	Status	500ml/ha	А	26ab	80a	0b	0b		
	Verdict 520	100ml/ha	А						
	Liase	1% v/v	А						
	Uptake	0.5% v/v	А						
	Oatmaster	1875ml/ha	С						
	Uptake	0.5% v/v	С						
			LSD P=	0.3t	20.0t	2.519t	6.688t		
		Treatment	Prob.(F)=	0.0001	0.0001	0.0001	0.0001		

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.

Assessment Type

BURNDOWN = % Burndown/brown out

Pest Stage Majority

30 = Beginning of stem elongation; G_Beginning of shooting

40 = V_Vegetative reproductive organs begin to develop (rhizomes, stolons, tubers, runners, bulbs)

69 = End of flowering: fruit set visible

ARM Action Codes

AL = Automatic log transformation of X+1

AA = Automatic arcsine square root % transformation

DAA = Days after Application A

Knockdown Control of Wild Oats in Chickpeas

Trial ID: RB1809

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Location:
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Crooble

Trial Year: 2018

	Application Desc	ription		
	Α	В	С	
Application Date:	17/08/2018	30/08/2018	14/09/2018	
Application Start Time:	8:30 AM	9:00 AM	9:00 AM	
Application Stop Time:	10:30 AM	11:00 AM	10:30 AM	
Application Timing:	Wild Oat Tillering	Wild Oat GS31	Wild Oat Booting	
Application Placement:		FOLIAR		
Air Temperature, Unit:	16 C	18 C	19 C	
% Relative Humidity:	35	40	42	
Wind Velocity, Unit:	4 km/h	5 km/h	12 km/h	
Wind Direction:	WNW	Ν	NE	
Dew Presence (Y/N):		No		
% Cloud Cover:	20	0	0	
Next Moisture Occurred On:	25/08/2018			

Pest Stage at Each Application						
		Α		В		С
Pest:	Wi	Wild Oats (Avena sterilis ludoviciana)				iciana)
Stage Majority, Percent:	14	90%	30	75%	40	80%
Stage Minimum, Percent:	12	4%	30	75%	37	10%
Stage Maximum, Percent:	22	6%	32	5%	43	10%
Density, Unit:			0.6	m²		

Application Equipment						
	A B C					
Operation Pressure, Unit:		300 kPa				
Nozzle Type:		AIXR				
Nozzle Size:	110015					
Nozzle Spacing, Unit:	50 cm					
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					

Conclusions:

This trial was conducted ~50km north of Moree to evaluate the efficacy of Oat Master alone or following Group A post-emergent herbicide application. Conditions were very dry at the start of the trial with wild oat counts of ~0.6 plants per m² and visually moisture stressed.

All treatments that included Status or Status/Verdict mixtures provided effective wild oat control.

In this situation Oat Master treatments alone did not control the wild oats. There was no apparent rate or timing response to the Oat Master applications. All surviving wild oats produced panicles.

It is unclear what caused the poor Oat Master efficacy but it may have been a result of very dry conditions at application for Applications B and C. Late rain (~55mm) and warm conditions after the last application helped surviving plants produce panicles.