

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.

Broadleaf Weed Control in Sorghum

Trial ID: **RB1820** Location: **Blue Nobby** Trial Year: **2018**
Investigator: **Richard Black**

Objective:	To evaluate in-crop options for <i>Tribulus spp.</i> control
Situation:	Sorghum (MR Apollo)
Application Date:	13/11/2018
Crop Stage at Application:	60% at 4 Leaf Stage
Weed Population at Application:	12/m²
Weed Size:	~10cm diameter
Keywords:	<i>Tribulus</i>, Yellow vine, knockdown, sorghum

Pest Scientific Name			<i>Tribulus micrococcus</i>		
Pest Name			Yellow vine		
Description					
Assessment Date			28/11/2018	Surviving	New Emergence
Assessment Type			BURNDOWN	12/12/2018	12/12/2018
Assessment Unit			%	COUNT	COUNT
Treatment-Evaluation Interval			15 DAA	/m ²	/m ²
ARM Action Codes			AA	29 DAA	29 DAA
Trt No.	Treatment	Product Rate			
1	Gesaprim 900WG Starane Advanced Hasten	1500g/ha 450ml/ha 0.5% v/v	87cd	3-	16-
2	Gesaprim 900WG Starane Advanced Hasten	2000g/ha 450ml/ha 0.5% v/v	84cd	3-	20-
3	Gesaprim 900WG Starane Advanced Hasten	3000g/ha 450ml/ha 0.5% v/v	95abc	4-	14-
4	Gesaprim 900WG Starane Advanced Hasten	1500g/ha 800ml/ha 0.5% v/v	95abc	3-	24-
6	Gesaprim 900WG Cutlass Hasten	2000g/ha 500ml/ha 0.5% v/v	99ab	5-	12-
8	Gesaprim 900WG Tordon 75-D Hasten	1500g/ha 500ml/ha 0.5% v/v	99ab	2-	10-
10	Gesaprim 900WG Bromicide Hasten	1500g/ha 2000ml/ha 0.5% v/v	100a	0-	25-
11	Gesaprim 900WG Stuka Flexi Hasten	1500g/ha 155ml/ha 0.5% v/v	91bcd	10-	13-
13	Terbyne Xtreme Starane Advanced Hasten	950g/ha 450ml/ha 0.5% v/v	75d	6-	20-
LSD P=			13.8t	nsd	nsd
Treatment Prob.(F)=			0.0027	0.0724	0.2550

Means followed by same letter do not significantly differ (P=.05, LSD) nsd = No significant difference

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.

Treatments 5,7,9 and 12 were excluded from analysis as they included unregistered options

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BURNDOWN = Burndown/brown out

ARM Action Codes

AA = Automatic arcsine square root % transformation

AL = Automatic log transformation of X+1

DAA = Days after Application

Conclusions:

This trial was conducted in the Yallaroi area with a yellow vine population of ~12/m².

All treatments provided useful levels of burndown at 15 days after application with best activity from Gesaprim + Bromicide. By 29 days after application, yellow vine was regrowing in most plots with no significant difference between treatments, although a clear trend (p=10%) to improved activity from Gesaprim + Bromicide and poorest control from Gesaprim + Stuka Flexi. There was no significant difference between treatments in residual control of a new emergence event.

No crop effects were evident.

Application Description

Application Date:	13/11/2018
Application Start Time:	6:30 AM
Application Stop Time:	9:00 AM
Application Method:	SPRAY
Application Timing:	EARLY POST-EM
Application Placement:	FOLIAR
Air Temperature, Unit:	20 C
% Relative Humidity:	40
Wind Velocity, Unit:	12 km/h
Wind Direction:	NE
Dew Presence (Y/N):	No
% Cloud Cover:	0
Next Moisture Occurred On:	22/11/2018

Crop State at Application

Crop:	Sorghum
Stage Scale Used:	BBCH
Stage Majority, %:	4 Leaf 60%
Stage Minimum, %:	2 Leaf 5%
Stage Maximum, %:	7 Leaf 35%
Height, Unit:	30 cm

Application Equipment

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:	10.3 km/h
Carrier:	WATER
Spray Volume, Unit:	70 L/ha