

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: **LB1728** Location: **Mt Tyson** Trial Year: **2017**
Investigator: **Linda Bailey**

Objective:	To evaluate in-crop options for <i>Tribulus</i> control			
Crop:	Sorghum (MR Buster) 90% at 5 Leaf Stage			
Planting Date:	25/10/2017			
Application Code:	A	B	C	D
Nozzle:	AIXR110015	DG110015	AIXR110015	AIXR110015
Spray volume:	70 L/ha	70 L/ha	50 L/ha	100 L/ha
Application Date:	22/11/2017			
Weed:	Yellow Vine (<i>Tribulus micrococcus</i>)			
Weed Stage Majority:	Full Flowering (90% of Population)			
Weed Population:	0.2/m²			
Keywords:	<i>Tribulus</i>, Yellow vine, knockdown, sorghum			

Pest Scientific Name Pest Name Description Assessment Date Assessment Type Assessment Unit Pest Stage Majority Treatment-Evaluation Interval ARM Action Codes					<i>Tribulus micrococcus</i> Yellow Vine			
					8/12/2017 BURNDOWN %	21/12/2017 COUNT /m ²	21/12/2017 COUNT /m ²	Weed Groundcover 9/01/2018 AREA %
Trt No.	Treatment	Product Rate	Appln. Code	Spray Volume	Survivors	Newly Emerged	Weed Groundcover	
1	Nu-trazine 900 DF Starane Advanced Chemwet	1100g/ha 450ml/ha 0.5% v/v	A	70L/ha 70L/ha 70L/ha	48bc	0.3ab	1.0- 30abc	
2	Nu-trazine 900 DF Starane Advanced Hasten	1100g/ha 450ml/ha 0.5% v/v	A	70L/ha 70L/ha 70L/ha	36c	0.5a	0.4- 50a	
3	Nu-trazine 900 DF Starane Advanced Hasten	1100g/ha 450ml/ha 0.5% v/v	B	70L/ha 70L/ha 70L/ha	39c	0.3ab	0.7- 17a-d	
4	Nu-trazine 900 DF Starane Advanced Hasten	1100g/ha 450ml/ha 0.5% v/v	C	50L/ha 50L/ha 50L/ha	36c	0.4ab	0.1- 31ab	
5	Nu-trazine 900 DF Starane Advanced Hasten	1100g/ha 450ml/ha 0.5% v/v	D	100L/ha 100L/ha 100L/ha	26c	0.1bc	0.6- 11bcd	
6	Nu-trazine 900 DF Starane Advanced Hasten	1100g/ha 600ml/ha 0.5% v/v	A	70L/ha 70L/ha 70L/ha	92a	0.1bc	0.9- 16bcd	
7	Nu-trazine 900 DF Cutlass 500 SL Hasten	1100g/ha 500ml/ha 0.5% v/v	A	70L/ha 70L/ha 70L/ha	90ab	0.2ab	1.2- 15bcd	
8	Nu-trazine 900 DF Tordon 75D Hasten	1100g/ha 500ml/ha 0.5% v/v	A	70L/ha 70L/ha 70L/ha	98a	0.0c	0.5- 4d	
9	Nu-trazine 900 DF Bromicide 200 EC Hasten	1100g/ha 2000ml/ha 0.5% v/v	A	70L/ha 70L/ha 70L/ha	99a	0.0c	0.9- 5cd	

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Pest Scientific Name Pest Name					<i>Tribulus micrococcus</i> Yellow Vine			
Description					8/12/2017 BURNDOWN %	21/12/2017 COUNT /m ²	21/12/2017 COUNT /m ²	Weed Groundcover 9/01/2018 AREA %
Assessment Date								
Assessment Type					65	65	13	65
Assessment Unit					16 DAA	29 DAA	29 DAA	48 DAA
Pest Stage Majority					AA	T1 AA	T2 AA	AA
Treatment-Evaluation Interval								
ARM Action Codes								
Trt No.	Treatment	Product Rate	Appln. Code	Spray Volume				
10	Terbyne Xtreme Hasten	1200g/ha 0.5% v/v	A	70L/ha 70L/ha	11c	0.6a	0.2-	38ab
11	Terbyne Xtreme Starane Advanced Hasten	950g/ha 450ml/ha 0.5% v/v	A	70L/ha 70L/ha 70L/ha	100a	0.1bc	0.3-	2d
12	Gp HC V	1000ml/ha	A	70L/ha	100a	0.0c	0.7-	10bcd
LSD P=					28.5t	2.08t	nsd	21.0t
Treatment Prob.(F)=					0.0001	0.0023	0.2917	0.0332

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.
 Missing data estimates are included in columns: Average=1, 3, 5, 6
 nsd = No significant difference

Assessment Type
 BURNDOWN = % Burndown/brown out

Pest Stage Majority
 65 = Full flowering: 50% of flowers open, first petals may be fallen
 13 = 3 True leaves, leaf pairs or whorls unfolded

ARM Action Codes
 AA = Automatic arcsine square root % transformation
 T1 = [C2]/10
 T2 = [C4]/10

DAA = Days after Application

Application Description				
	A	B	C	D
Application Date:	22/11/2017			
Application Start Time:	7:10 AM			
Application Stop Time:	10:30 AM			
Application Method:	SPRAY			
Application Timing:	LATE POST-EM			
Application Placement:	FOLIAR			
Air Temperature, Unit:	20 C			
% Relative Humidity:	51			
Wind Velocity, Unit:	12 km/h			
Wind Direction:	E			
Dew Presence (Y/N):	No			
Soil Moisture:	DRY			
% Cloud Cover:	70			
Next Moisture Occurred On:	3/12/2017			

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Location:

Mt Tyson

Trial Year: 2017

Application Equipment				
	A	B	C	D
Appl. Equipment:	Quad Bike			
Equipment Type:	Boom			
Operation Pressure, Unit:	300 kPa			
Nozzle Type:	AIXR	DG	AIXR	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:	10.3 km/h	10.3 km/h	14.4 km/h	7.2 km/h
Spray Volume, Unit:	70 L/ha	70 L/ha	50 L/ha	100 L/ha