

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.

Residual Control of Button Grass in Fallow

Trial ID: **RB1811** Location: **Goondiwindi** Trial Year: **2018**
 Investigator: **Richard Black**

Objective:	To evaluate residual control of button grass in fallow
Application Date:	19/11/2018
Application Nozzles:	AIXR110015
Application Volume:	100 L/ha
Weed Stage at Application:	Pre-emergent
Keywords:	Button grass, residual, fallow

Pest Scientific Name			<i>Dactyloctenium radulans</i>
Pest Name			Button grass
Assessment Date			1/05/2019
Assessment Type			COUNT
Assessment Unit			/m ²
Pest Stage Majority			79
Treatment-Evaluation Interval			163 DAA
ARM Action Codes			AA T1
Trt No.	Treatment	Product Rate	
1	Untreated	-	15.3a
2	Dual Gold	2000ml/ha	0.2e
3	Flame	150ml/ha	1.0cde
4	Flame	200ml/ha	0.9de
5	Balance	100g/ha	15.2a
6	Stomp Xtra	3300ml/ha	3.2bc
7	Terbyne Xtreme	1200g/ha	14.0a
8	Valor	210g/ha	3.9b
9	Valor	280g/ha	2.4bcd
10	Flame	150ml/ha	1.7bcd
	Balance	100g/ha	
11	Flame	150ml/ha	1.0cde
	Gp C D	1000g/ha	
		LSD P=	4.70t
		Treatment Prob.(F)	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.

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Trial ID: RB1811

Location:

Goondiwindi

Trial Year: 2018

Conclusions:

This trial was conducted to evaluate the residual control of button grass in fallow. An establishment of button grass was already present at the site with the majority of weeds ~15-25cm in diameter. These weeds were controlled with Roundup 450 @4L/ ha + Liase @1%. Residual treatments were applied on the 19/11/18, 5 days after the Roundup application.

Significant rain events occurred 3 days after residual application (52mm) and 29 days after application (30mm). There was no new emergence of button grass even in the untreated areas. A second maintenance spray of Roundup was applied to control any surviving mature button grass plants ~30 days after the residual herbicide application. Assessment on the 5/2/19 (77 days after application) still showed no new button grass emergence.

Additional rain events occurred in March 2019 (85mm on 16/3/19 and 35mm on 30/3/19) with an assessment of control conducted on the 1/5/19 (163 days after application). The majority of button grass at this assessment were flowered, up to ~30cm in diameter and expected to have emerged following the March rainfall. Dual Gold 2L provided ~99% control of the emergence flush with Flame at 150-200 mL/ha in excess of 90% control. Stomp Xtra and Valor provided useful levels of suppression and controlled ~70-80% of the emergence. Neither Balance 100 g/ha nor Terbyne Xtreme 1.2 kg/ha provided any button grass control and there was no obvious indication of biomass suppression.

Pest Stage Majority

79 = Nearly all fruits have reached final size normal for the species and location

ARM Action Codes

AA = Automatic arcsine square root % transformation

T1 = Arcsine square root percent ([2])

DAA = Days after Application

Application Description	
Application Date:	19/11/2018
Appl. Start Time:	8:00 AM
Appl. Stop Time:	10:00 AM
Application Method:	SPRAY
Application Timing:	PRE-EMERGENT
Application Placement:	SOIL
Air Temperature, Unit:	18 C
% Relative Humidity:	65
Wind Velocity, Unit:	13 km/h
Wind Direction:	NE
Dew Presence (Y/N):	No
% Cloud Cover:	0

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:	7.2 km/h
Carrier:	WATER
Spray Volume, Unit:	100 L/ha