

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.

Alternatives to Paraquat in a Double Knock

Trial ID: **LB1730** Location: **Cecil Plains** Trial Year: **2017**
Investigator: **Linda Bailey**

Objective:	To evaluate alternative second knock options for broadleaf weed control	
Situation:	Fallow	
Application Code:	B	
Application Date:	7/12/2017 (10 days after first knock applied)	
Weeds:	Canadian Fleabane (<i>Conyza canadensis</i>)	Button Grass (<i>Dactyloctenium radulans</i>)
Weed Stage:	Inflorescence or Flower buds visible (95%)	Not Recorded
Weed population:	8.5/m ²	1/m ²
Keywords:	Canadian fleabane, Button grass, knockdown, fallow	
NB: Application A was 750mL/ha Tordon 75D on 27/11/2017, applied commercially over entire trial area.		

Pest Scientific Name				<i>Conyza canadensis</i>		<i>Dactyloctenium radulans</i>
Pest Name				Canadian Fleabane		Button Grass
Description					Regrowing	
Assessment Date				22/12/2017	4/01/2018	4/01/2018
Assessment Type				BURNDOWN	COUNT	COUNT
Assessment Unit				%	/m ²	/m ²
Pest Stage Majority				48		
Treatment-Evaluation Interval				15 DAB	28 DAB	28 DAB
ARM Action Codes				AA	AA T1	AL T2
Trt No.	Treatment	Product Rate	Appl. Code			
1	No second knock	-	-	40f	1.5b	1.4-
2	Nuquat	800ml/ha	B	57de	1.9ab	0.7-
3	Nuquat	1600ml/ha	B	43ef	3.1a	1.3-
4	Nuquat Hasten 1% v/v	1600ml/ha	B	60d	1.6b	1.1-
5	Nuquat	2000ml/ha	B	57de	2.6ab	1.0-
6	Nuquat	2400ml/ha	B	40f	3.1a	1.3-
7	Sharpen Hasten 1% v/v	9g/ha	B	97b	0.1cd	0.6-
8	Sharpen Hasten 1% v/v	17g/ha	B	99ab	0.0cd	0.9-
9	Sharpen Hasten 1% v/v	26g/ha	B	99ab	0.1cd	0.9-
10	Sharpen Hasten 1% v/v	34g/ha	B	100a	0.2c	0.6-
11	Nuquat Sharpen Hasten 1% v/v	800ml/ha	B	100a	0.2c	1.0-
12	Nuquat Sharpen Hasten 1% v/v	1600ml/ha	B	100a	0.0d	1.0-
13	Nuquat Sharpen Hasten 1% v/v	800ml/ha	B	100a	0.1cd	0.7-
14	Experimental Adigor 1% v/v	1600ml/ha	B	77c	1.7b	1.1-
LSD P=				9.1t	2.30t	nsd
Treatment Prob.(F)=				0.0001	0.0001	0.9870

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.

nsd = No significant difference

Alternatives to Paraquat in a Double Knock

Trial ID: **LB1730** Location: **Cecil Plains** Trial Year: **2017**

Assessment Type

BURNDOWN = % Burndown/brown out

ARM Action Codes

AA = Automatic arcsine square root % transformation

AL = Automatic log transformation of X+1

T1 = Arcsine square root percent ([3])

T2 = LOG ([5] + 1)

DAB = Days after Application B

Application Description		
	A	B
Application Date:	27/11/2017	7/12/2017
Application Start Time:		9:55 AM
Application Stop Time:		11:05 AM
Application Method:	SPRAY	
Application Timing:	LATE POST-EM	
Application Placement:	FOLIAR	
Air Temperature, Unit:		30 C
% Relative Humidity:		27
Wind Velocity, Unit:		3.5 km/h
Wind Direction:		S
Dew Presence (Y/N):		No
Soil Moisture:		DRY
% Cloud Cover:		10
Next Moisture Occurred On:	1/12/2017	9/12/2017

Application Equipment		
	A	B
Application Equipment:	WEEDit	Quad Bike
Equipment Type:	TLMOSP	BOOM
Operation Pressure, Unit:	300 kPa	300 kPa
Nozzle Type:	Flat Fan	AIXR
Nozzle Size:	4003EVS	110015
Nozzle Spacing, Unit:	20 cm	50 cm
Nozzles/Row:	50	6
Boom Length, Unit:	10 m	3 m
Boom Height, Unit:	70 cm	50 cm
Ground Speed, Unit:	15 km/h	7.2 km/h
Spray Volume, Unit:	225 L/ha	100 L/ha