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Alternative Second Knock Options for Grass Weeds

Trial ID: **BD1917** Location: **Mullaley** Trial Year: **2019**
Investigator: **Branko Duric**

Objective:	To evaluate alternative second knock options for grass weeds	
Situation:	Fallow	
Application:	A (1 st Knock)	B (2 nd Knock)
Application Date:	13/01/2019	21/01/2019
Nozzles:	AIXR110015	
Volume:	100 L/ha	
Weed:	Liverseed Grass	
Weed Stage at Application:	Early tillering	
Weed Population at Application:	16.5 /m ²	
Keywords:	Liverseed grass, double knock, fallow	

NB: Application A (1st Knock) was Glyphosate 450 1.5 L/ha + Starane Advanced 0.6 L/ha + 0.5 % Uptake spraying oil

Pest Scientific Name				<i>Urochloa panicoides</i>
Pest Name				Liverseed Grass
Assessment Date				4/02/2020
Assessment Type				BURNDOWN
Assessment Unit				%
Treatment-Evaluation Interval				14 DAB
Trt No.	Treatment	Product Rate	Appln. Code	
1	1st Knock only	-	-	15ef
2	Gramoxone	1600ml/ha	B	17def
3	Gramoxone	2000ml/ha	B	53a-d
4	Gramoxone	2400ml/ha	B	70abc
5	Gramoxone	1600ml/ha	B	73ab
	Sharpen	9g/ha	B	
6	Gramoxone	1600ml/ha	B	78a
	Sharpen	9g/ha	B	
	Hasten	1% v/v	B	
7	Gramoxone	1600ml/ha	B	37b-f
	Sharpen	9g/ha	B	
	Liberate	0.5% v/v	B	
8	Gramoxone	1600ml/ha	B	48a-e
	Basta	2000ml/ha	B	
9	Paratrooper	1600ml/ha	B	35c-f
10	Alliance	3200ml/ha	B	37b-f
11	Gramoxone	1600ml/ha	B	30def
	Balance	100g/ha	B	
12	Basta	3750ml/ha	B	72abc
13	Experimental	3300ml/ha	B	40b-f
	Hasten	1% v/v	B	
14	Bioweed Organic	20000ml/ha	B	20def
15	Slasher Organic Weedkiller	7000ml/ha	B	10f
LSD P=.05				38.3
Treatment Prob.(F)				0.01

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P (F) is significant at mean comparison OSL.

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Trial ID: BD1917 **Location:** Mullaleey **Trial Year:** 2019

DAB = Days after Application B

Conclusions:

2nd knock treatments were applied 8 days after a 1st knock application of Glyphosate 450 1.5 L/ha + Starane Advanced 0.6 L/ha + 0.5% Uptake spraying oil. All 2nd knock treatments were applied at a volume of 100 L/ha.

A burndown assessment was made 14 days after the 2nd knock application. Highest levels of burndown were achieved by treatments of Gramoxone 2.4 L/ha, Gramoxone 1.6 L/ha + Sharpen 9 g/ha, Gramoxone 1.6 L/ha + Sharpen 9 g/ha + 1% Hasten or Basta alone at 3.75 L/ha. Interestingly the addition of Liberate (non-ionic surfactant) to Gramoxone 1.6 L/ha + Sharpen 9 g/ha appeared to slow or antagonise Liverseed grass burndown.

Because of heavy rain it was impossible to enter the site for a number of weeks. On re-entry, site was completely overgrown with no apparent treatment effects. No further assessments were conducted.

Application Description		
	A	B
Application Date:	13/01/2020	21/01/2020
Application Start Time:	9:00 AM	9:00 AM
Application Stop Time:	11:00 AM	12:00 PM
Application Method:	SPRAY	
Application Placement:	FOLIAR	
Air Temperature, Unit:	22 C	27 C
% Relative Humidity:	45	28
Wind Velocity, Unit:	3 m/s	0.7 m/s
Wind Direction:	SE	W
Dew Presence (Y/N):	No	
% Cloud Cover:	60	0

Pest Stage at Each Application		
	A	
Pest:	<i>Urochloa panicoides</i> Liverseed Grass	
Stage Majority, %:	17	70%
Stage Minimum, %:	12	20%
Stage Maximum, %:	21	10%
Density, Unit:	16.5	m ²

Application Equipment		
	A	B
Application Equipment:	Polaris	
Equipment Type:	BOOM	
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	