

Disclaimer:

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Alternative Second Knock Options for Grass Weeds

Trial ID: **LB1929** Location: **Felton** Trial Year: **2019**
Investigator: **Linda Bailey**

Objective:	To evaluate alternative second knock options for grass weeds	
Situation:	Fallow	
Application:	A (1st Knock)	B (2nd Knock)
Application Date:	7/11/2019	14/11/2019
Nozzles:	AIXR110015	
Volume:	100 L/ha	
Weed:	Liverseed Grass	Stink Grass
Weed Stage at Application:	5 true leaves	5 true leaves
Weed Population at Application:	8 plants/m²	1 plant/m²
Keywords:	Liverseed grass, stink grass, double knock, fallow	

1st Knock (Application A) Starane Advance 0.6 L/ha + Glyphosate 450 1.75 L/ha + Wetspray 1000 0.1% in 65 L/ha, applied by grower

Pest Scientific Name			<i>Urochloa panicoides</i>		<i>Eragrostis ciliaris</i>	
Pest Name			Liverseed Grass		Stink Grass	
Assessment Date			22/11/2019	19/12/2019	22/11/2019	19/12/2019
Assessment Type			BURNDOWN	COUNT	BURNDOWN	COUNT
Assessment Unit			%	/m ²	%	/m ²
Treatment-Evaluation Interval			8 DAB	35 DAB	8 DAB	35 DAB
ARM Action Codes			AA		AA	
Trt No.	Treatment	Product Rate				
1	1st Knock only	-	85 -	0 -	95-	0-
2	Gramoxone	1600ml/ha	95 -	0 -	100-	0-
3	Gramoxone	2000ml/ha	98 -	0 -	100-	0-
4	Gramoxone	2400ml/ha	99 -	0 -	100-	0-
5	Gramoxone	1600ml/ha	98 -	0 -	100-	0-
	Sharpen	9g/ha				
6	Gramoxone	1600ml/ha	98 -	0 -	100-	0-
	Sharpen	9g/ha				
	Hasten	1% v/v				
7	Gramoxone	1600ml/ha	95 -	0 -	100-	0-
	Sharpen	9g/ha				
	Liberate	0.5% v/v				
8	Gramoxone	1600ml/ha	95 -	0 -	100-	0-
	Basta	2000ml/ha				
9	Paratrooper	1600ml/ha	95 -	0 -	99-	0-
10	Alliance	3200ml/ha	97 -	0 -	99-	0-
11	Gramoxone	1600ml/ha	95 -	0 -	100-	0-
	Balance	100g/ha				
12	Basta	3750ml/ha	94 -	0 -	99-	0-
13	Experimental	3300ml/ha	88 -	0 -	99-	0-
	Hasten	1% v/v				
14	Bioweed Organic	20000ml/ha	89 -	0 -	99-	0-
15	Slasher Weedkiller	7000ml/ha	92 -	0 -	99-	0-
LSD P=.05			nsd	n/a	nsd	n/a
Treatment Prob (F)			0.11	n/a	0.19	n/a

nsd= no significant difference

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

n/a no analysis of counts as complete control for all treatments

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Location:

Felton

Trial Year:

2019**ARM Action Codes**

AA = Automatic arcsine square root % transformation

DAB = Days after Application B

Conclusions:

The trial was established to screen 2nd knock options for grass weed control. The 1st knock, Starane Advance + Glyphosate + Wetspray 1000, was applied to mixed population of Liverseed grass (~7.9 weeds/m²) and Stink grass (~0.5 weeds/m²). The 2nd knock treatments were applied 7 days later.

Burndown was assessed 8 days after the 2nd knock treatments were applied. There were no significant improvements in the burndown of either Liverseed or Stink grass from the 2nd knock treatments. The 1st knock treatment alone had provided 85% and 95% burndown of Liverseed and Stink grass respectively.

A final count was conducted at 35 days after the 2nd knock application. All treatments provided complete control including the 1st knock only. There was no ability to screen the 2nd knock treatments in this trial due to the complete control achieved with the 1st knock alone.

Application Description		
	A	B
Application Date:	7/11/2019	14/11/2019
Application Start Time:		9:30 AM
Application Stop Time:		11:50 AM
Application Method:	SPRAY	SPRAY
Application Timing:		EARLY POST-EM
Air Temperature, Unit:		23.9 C
% Relative Humidity:		41.6
Wind Velocity, Unit:		8.1 km/h
Wind Direction:		NE
Dew Presence (Y/N):		No
Soil Moisture:		DRY
% Cloud Cover:		0
Next Moisture Occurred On:	1/12/2019	1/12/2019

Pest Stage at Application	
	Prior to Application B
Pest:	Liverseed Grass
Stage Majority, %:	Majority 4 leaf
Density, Unit:	7.9 m ²
Pest 2:	Stink Grass
Stage Majority, %:	Majority 5 leaf
Density, Unit:	0.5 m ²

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Trial Year: 2019

Application Equipment		
	A	B
Application Equipment:	Commercial	Polaris
Equipment Type:	BOOM	BOOM
Operation Pressure, Unit:		300 kPa
Nozzle Type:		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:		7.2 km/h
Spray Volume, Unit:	65 L/ha	100 L/ha