Alternatives to Paraquat in a Double Knock

Trial ID: BD1728 **Location:** Somerton **Trial Year:** 2018
Investigator: Branko Duric

Objective:	**To evaluate alternative second knock options for broadleaf weed control**	
Situation:	**Fallow**	
Application Code:	**A**	**B**
Application Date:	**13/03/2018**	**23/03/2018**
Application Timing:	**Late Post-Emergent**	**10 Days after Appln. A**
Weed Stage:	**Full Flowering**	**Full Flowering**
Weed Range:	**Early Flowering – End of Flowering**	**Early Flowering – End of Flowering**
Weed population:	**3.6/m²**	**3.6/m²**
Keywords:	**Flaxleaf fleabane, knockdown, fallow**	
NB: Application A was 2L/ha Glyphosate 450 + 300ml/ha Amicide 625 + 1% Liase. Applied over entire trial area.		

Pest Scientific Name				***Conyza bonariensis***	
Pest Name				**Flaxleaf Fleabane**	
Assessment Date				**4/04/2018**	**25/04/2018**
Assessment Type				**BURNDOWN**	**COUNT**
Assessment Unit				**%**	**/m²**
Treatment-Evaluation Interval				**12 DAB**	**33 DAB**
Trt No.	**Treatment**	**Product Rate**	**Appln. Code**		
1	No second knock	-	-	0c	0.9a
2	Gramoxone	800ml/ha	B	77b	0.1b
3	Gramoxone	1600ml/ha	B	100a	0b
4	Gramoxone Hasten	1600ml/ha 1% v/v	B	100a	0b
5	Gramoxone	2000ml/ha	B	100a	0b
6	Gramoxone	2400ml/ha	B	100a	0b
7	Sharpen Hasten	9g/ha 1% v/v	B	100a	0b
8	Sharpen Hasten	17g/ha 1% v/v	B	100a	0b
9	Sharpen Hasten	26g/ha 1% v/v	B	100a	0b
10	Sharpen Hasten	34g/ha 1% v/v	B	100a	0b
11	Gramoxone Sharpen Hasten	800ml/ha 9g/ha 1% v/v	B	100a	0b
12	Gramoxone Sharpen Hasten	1600ml/ha 9g/ha 1% v/v	B	100a	0b
13	Gramoxone Sharpen Hasten	800ml/ha 17g/ha 1% v/v	B	100a	0b
14	Gramoxone Sharpen Hasten	2400ml/ha 17g/ha 1% v/v	B	100a	0b
			LSD P=	6.9	0.07
			Treatment Prob.(F)=	0.0001	0.0001

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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Assessment Type
BURNDOWN = % Burndown/brown out
Pest Stage
63 - ~30% of flowers open
65 – full flowering, ~50% of flowers open
67 – flowering finishing

DAB = Days after Application B

Application Description		
	A	B
Application Date:	13/03/2018	23/03/2018
Application Start Time:	10:20 AM	7:30 AM
Application Stop Time:	11:30 AM	10:30 AM
Application Method:	SPRAY	
Application Placement:	FOLIAR	
Air Temperature, Unit:	26 C	19 C
% Relative Humidity:	45	63
Wind Velocity, Unit:	0.7 m/s	1.7 m/s
Wind Direction:	W	
Dew Presence (Y/N):	No	
% Cloud Cover:	30	

Pest Stage at Each Application				
	A		B	
Pest:	Flaxleaf Fleabane			
Stage Majority, %:	65	70%	65	70%
Stage Minimum, %:	63	10%	63	10%
Stage Maximum, %:	67	20%	67	20%
Density, Unit:	3.6	m^2	3.6	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	
Spray Volume, Unit:	100 L/ha	