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.

Efficacy Cost of Drift Reduction

Trial ID: LB1727 **Location:** Pittsworth **Trial Year:** 2018
Investigator: Linda Bailey

Objective:	**To determine the effects on efficacy of adopting drift reduction agents and ultra-coarse droplets**				
Application Date:	**18-19/01/2018**				
Application Code:	**A**	**B**	**C**	**D**	**E**
Nozzle:	**AIXR11002**	**TTI110015**	**TTI11002**	**TTI11003**	**TTI110015**
Pressure:	**300 kPa**	**300 kPa**	**300 kPa**	**200 kPa**	**300 kPa**
Speed:	**13.7 km/h**	**10.3 km/h**	**13.7 km/h**	**10.9 km/h**	**6.9 km/h**
Volume:	**70 L/ha**	**70 L/ha**	**70 L/ha**	**105 L/ha**	**105 L/ha**
Droplet:	**Coarse**	**Ultra Coarse**	**Ultra Coarse**	**Ultra Coarse**	**Ultra Coarse**
Description:	**Standard**	**Slow Speed**	**Standard**	**Increased Volume NB: Only 200kPa**	**Slow Speed & Increased Volume**
Application Timing:	**Salvage**				
Weed Stage:	**Post Flowering**				
Weed Population:	**0.5/m²**				
Keywords:	**Flaxleaf Fleabane, knockdown, fallow**				
NB: Negligible burndown when assessed at 20 DAA with no difference apparent between treatments. Consequently Gramoxone 2L/ha was applied across all plots on the 20 DAA as a second knock.					

Pest Scientific Name					***Conyza bonariensis***		
Pest Name					**Flaxleaf Fleabane**		
Assessment Date					**22/02/2018**	**2/03/2018**	**21/03/2018**
Assessment Type					**BURNDOWN**	**CONTROL**	**CONTROL**
Assessment Unit					**%**	**%**	**%**
Pest Stage Majority					**89**		
Treatment-Evaluation Interval					**34 DAA**	**42 DAA**	**61 DAA**
ARM Action Codes						**T2**	**T4**
Trt No.	**Treatment**		**Product Rate**	**Appln. Code**	**Spray Volume**			
TABLE OF A MEANS (Nozzle)							
1	AIXR11002			A	70L/ha	93-	94-	100-
2	TTI110015			B	70L/ha	98-	98-	100-
3	TTI11002			C	70L/ha	98-	97-	100-
4	TTI11003			D	105L/ha	94-	94-	100-
5	TTI110015			E	105L/ha	96-	98-	98-
TABLE OF B MEANS (Adjuvant Package)								
1	Weedmaster DST Amicide Advance 700 Hasten		1400ml/ha 1100ml/ha 1% v/v			98-	96-	99-
2	Weedmaster DST Amicide Advance 700 Hasten LI-700		1400ml/ha 1100ml/ha 1% v/v 0.5% v/v			95-	99-	100-
3	Weedmaster DST Amicide Advance 700 DeadSure		1400ml/ha 1100ml/ha 0.375% v/v			96-	93-	100-

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

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Pest Scientific Name / Pest Name					*Conyza bonariensis* Flaxleaf Fleabane		
Assessment Date					**22/02/2018**	**2/03/2018**	**21/03/2018**
Assessment Type					**BURNDOWN**	**CONTROL**	**CONTROL**
Assessment Unit					**%**	**%**	**%**
Pest Stage Majority					**89**		
Treatment-Evaluation Interval					**34 DAA**	**42 DAA**	**61 DAA**
ARM Action Codes						**T2**	**T4**
Trt No.	**Treatment**	**Product Rate**	**Appln. Code**	**Spray Volume**			
TABLE OF A x B MEANS (Nozzle x Adjuvant Package)							
1	Weedmaster DST Amicide Advance 700 Hasten	1400ml/ha 1100ml/ha 1% v/v	A	70L/ha	100-	100-	100-
1a	Weedmaster DST Amicide Advance 700 Hasten LI-700	1400ml/ha 1100ml/ha 1% v/v 0.5% v/v	A	70L/ha	88-	100-	100-
1b	Weedmaster DST Amicide Advance 700 DeadSure	1400ml/ha 1100ml/ha 0.375% v/v	A	70L/ha	92-	81-	100-
2	Weedmaster DST Amicide Advance 700 Hasten	1400ml/ha 1100ml/ha 1% v/v	B	70L/ha	98-	94-	100-
2a	Weedmaster DST Amicide Advance 700 Hasten LI-700	1400ml/ha 1100ml/ha 1% v/v 0.5% v/v	B	70L/ha	98-	100-	100-
2b	Weedmaster DST Amicide Advance 700 DeadSure	1400ml/ha 1100ml/ha 0.375% v/v	B	70L/ha	97-	100-	100-
3	Weedmaster DST Amicide Advance 700 Hasten	1400ml/ha 1100ml/ha 1% v/v	C	70L/ha	97-	97-	100-
3a	Weedmaster DST Amicide Advance 700 Hasten LI-700	1400ml/ha 1100ml/ha 1% v/v 0.5% v/v	C	70L/ha	98-	95-	100-
3b	Weedmaster DST Amicide Advance 700 DeadSure	1400ml/ha 1100ml/ha 0.375% v/v	C	70L/ha	100-	100-	100-
4	Weedmaster DST Amicide Advance 700 Hasten	1400ml/ha 1100ml/ha 1% v/v	D	105L/ha	97-	95-	100-
4a	Weedmaster DST Amicide Advance 700 Hasten LI-700	1400ml/ha 1100ml/ha 1% v/v 0.5% v/v	D	105L/ha	93-	100-	100-
4b	Weedmaster DST Amicide Advance 700 DeadSure	1400ml/ha 1100ml/ha 0.375% v/v	D	105L/ha	93-	86-	100-

Efficacy Cost of Drift Reduction

Trial ID: LB1727 **Location:** Pittsworth **Trial Year:** 2018

Trt No.	Treatment	Product Rate	Appln. Code	Spray Volume			
Pest Scientific Name					*Conyza bonariensis*		
Pest Name					Flaxleaf Fleabane		
Crop Name					Fallow	Fallow	Fallow
Assessment Date					22/02/2018	2/03/2018	21/03/2018
Assessment Type					BURNDOWN	CONTROL	CONTROL
Assessment Unit					%	%	%
Pest Stage Majority					89		
Treatment-Evaluation Interval					34 DAA	42 DAA	61 DAA
ARM Action Codes						T2	T4
5	Weedmaster DST Amicide Advance 700 Hasten	1400ml/ha 1100ml/ha 1% v/v	E	105L/ha	97-	95-	95-
5a	Weedmaster DST Amicide Advance 700 Hasten LI-700	1400ml/ha 1100ml/ha 1% v/v 0.5% v/v	E	105L/ha	95-	100-	100-
5b	Weedmaster DST Amicide Advance 700 DeadSure	1400ml/ha 1100ml/ha 0.375% v/v	E	105L/ha	97-	100-	100-

FACTORIAL/POOLED ERROR AOV
***Conyza bonariensis* - Flaxleaf Fleabane**
Fallow
22/02/2018
BURNDOWN % 89 34 DAA

Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	43	1016.111111				
R	2	60.277778	30.138889	1.676	0.2060	
A	4	177.222222	44.305556	2.464	0.0691	4
B	2	76.944444	38.472222	2.139	0.1373	3
AB	8	216.111111	27.013889	1.502	0.2028	7
ERROR	27	485.555556	17.983539			

FACTORIAL/POOLED ERROR AOV
***Conyza bonariensis* - Flaxleaf Fleabane**
Fallow
2/03/2018
CONTROL % 42 DAA T2

Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	43	3008.067523				
R	2	144.220207	72.110103	1.321	0.2836	
A	4	202.927690	50.731922	0.929	0.4616	7
B	2	240.939783	120.469892	2.207	0.1295	6
AB	8	946.172840	118.271605	2.167	0.0637	12
ERROR	27	1473.807004	54.585445			

Efficacy Cost of Drift Reduction

Trial ID: LB1727 **Location:** Pittsworth **Trial Year:** 2018

FACTORIAL/POOLED ERROR AOV
***Conyza bonariensis* - Flaxleaf Fleabane**
Fallow
21/03/2018
CONTROL % 61 DAA T4

Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	43	199.546485				
R	2	9.070295	4.535147	0.964	0.3940	
A	4	18.140590	4.535147	0.964	0.4431	2
B	2	9.070295	4.535147	0.964	0.3940	2
AB	8	36.281179	4.535147	0.964	0.4835	4
ERROR	27	126.984127	4.703116			

Assessment Type
BURNDOWN = % Burndown/brown out
Pest Stage Majority
89 = Fully ripe
ARM Action Codes
T2 = (([2]-[C4]) / [C2])*100
T4 = (([2]-[7]) / [2])*100

DAA = Days after Application

Conclusions:

All treatments provided excellent levels of control of a very low population of advanced fleabane. Under these conditions there was no impact from adjuvant package or spray parameters.

Application Description						
	A	B	C	D	E	F
Application Date:	18/01/2018	19/01/2018	19/01/2018	19/01/2018	19/01/2018	7/02/2018
Application Start Time:	10:45 AM	10:35 AM	10:35 AM	10:35 AM	10:35 AM	9:30 AM
Application Stop Time:	11:00 AM	12:15 PM	12:15 PM	12:15 PM	12:15 PM	10:00 AM
Application Method:	SPRAY					
Application Timing:	LATE POST-EM					
Application Placement:	FOLIAR					
Air Temperature, Unit:	29 C	30 C	30 C	30 C	30 C	25 C
% Relative Humidity:	36	35	35	35	35	68
Wind Velocity, Unit:	3 km/h	1.5 km/h	1.5 km/h	1.5 km/h	1.5 km/h	13 km/h
Wind Direction:	SE	S	S	S	S	E
Dew Presence (Y/N):	No					
Soil Moisture:	DRY					
% Cloud Cover:	20	0	0	0	0	0
Next Moisture Occurred On:	Jan-28-2018	Jan-28-2018	Jan-28-2018	Jan-28-2018	Jan-28-2018	Feb-13-2018

Efficacy Cost of Drift Reduction

Trial ID: LB1727 **Location:** Pittsworth **Trial Year:** 2018

Application Equipment						
	A	B	C	D	E	F
Application Equipment:	Quad Bike					
Equipment Type:	BOOM					
Operation Pressure, Unit:	300 kPa	300 kPa	300 kPa	200 kPa	300 kPa	300 kPa
Nozzle Type:	AIXR	TTI	TTI	TTI	TTI	AIXR
Nozzle Size:	11002	110015	11002	11003	110015	110015
Nozzle Spacing, Unit:	50 cm					
Nozzles/Row:	8					
Boom Length, Unit:	4 m					
Boom Height, Unit:	50 cm	50 cm	50 cm	50 cm	50 cm	78 cm
Ground Speed, Unit:	13.7 km/h	10.3 km/h	13.7 km/h	10.9 km/h	6.9 km/h	7.2 km/h
Spray Volume, Unit:	70 L/ha	70 L/ha	70 L/ha	105 L/ha	105 L/ha	100 L/ha