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.

Residual Herbicides for Grass Control in Chickpea 2015

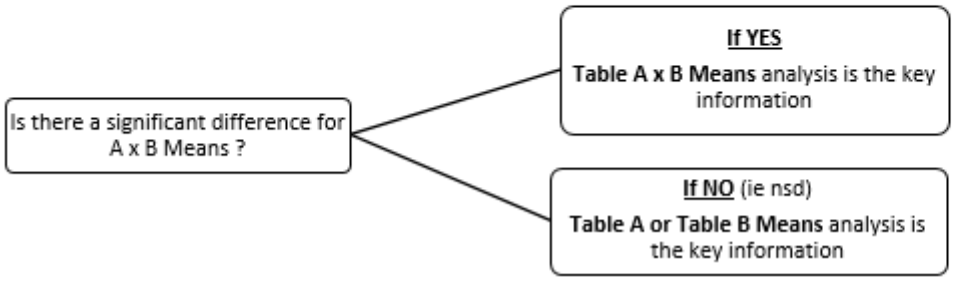
Trial ID: LB1518 **Location:** Condamine **Trial Year:** 2015
Investigator: Linda Bailey

No grass weeds emerged in this trial

Planting Date:	**20/05/2015**	
Planting Equipment:	**Commercial disc planter**	
Row Spacing:	**76cm**	
Application Code:	**A**	**B**
Application Date:	**20/05/2015**	**26/05/2015**
Target/Stage:	**Pre-plant incorporated by sowing**	**Post-sowing/ Pre-emergent**

Trial designed and analysed as a Strip Plot

	In Simple Terms
Table of A Means:	Mean of 'Main Herbicide' performance with **ALL** 'Balance' treatments
Table of B Means:	Mean of 'Balance' performance with **ALL** 'Main Herbicide treatments
Table of A x B Means:	'Main Herbicide' performance with **EACH** 'Balance' treatment



Pest Scientific Name				*Conyza bonariensis*	*Tetragonia tetragonioides*
Pest Name				**Flaxleaf Fleabane**	**NZ spinach**
Crop Name				**Chickpea**	
Crop Variety				**PBA HatTrick**	
Assessment Date				**23/06/2015**	**17/09/2015**	**17/09/2015**
Assessment Type				**EMERGENCE**	**COUNT**	**COUNT**
Assessment Unit				**/m²**	**/m²**	**/m²**
Treatment-Evaluation Interval				**34 DAA**	**120 DAA**	**120 DAA**
ARM Action Codes				**AL**	**AA**	**AA**
Trt No.	**Treatment**	**Product Rate**	**Appln. Code**			
TABLE OF A MEANS (Main Herbicide)						
1	Untreated	-	-	10.6-	0.6-	0.1t-
2	Sakura	118g/ha	A	10.5-	0.2-	0.0t-
3	Outlook	1000ml/ha	A	11.2-	0.0-	0.0t-
4	Outlook Gp G S	1000ml/ha 75g/ha	A A	10.7-	0.0-	0.0t-
5	Boxer Gold	2500ml/ha	A	10.7-	0.0-	0.0t-
6	Triflurx	1700ml/ha	A	11.1-	0.0-	0.1t-
7	Rifle	2250ml/ha	A	9.5-	0.1-	0.0t-
8	Dual Gold	250ml/ha	B	9.8-	0.1-	0.2t-
9	Terbyne Xtreme Avadex Xtra	1000g/ha 1600ml/ha	A A	10.2-	0.0-	0.0t-
10	Terbyne Xtreme Triflurx	1000g/ha 1700ml/ha	A A	10.7-	0.0-	0.0t-
11	Simagranz	1500g/ha	B	10.1-	0.0-	0.0t-
12	Terbyne Xtreme	1200g/ha	B	9.7-	0.1-	0.0t-
13	Gp D R	1000ml/ha	B	10.0-	0.5-	0.1t-
14	Rifle Balance	1500ml/ha 100g/ha	B B	9.9-	0.0-	0.0t-

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Trial ID: LB1518 **Location:** Condamine **Trial Year:** 2015

Trt No.	Treatment	Product Rate	Appln. Code			
Pest Scientific Name					*Conzya bonariensis*	*Tetragonia tetragonioides*
Pest Name					Flaxleaf Fleabane	NZ spinach
Crop Name				Chickpea		
Crop Variety				PBA HatTrick		
Assessment Date				23/06/2015	17/09/2015	17/09/2015
Assessment Type				EMERGENCE	COUNT	COUNT
Assessment Unit				/m²	/m²	/m²
Treatment-Evaluation Interval				34 DAA	120 DAA	120 DAA
ARM Action Codes				AL	AA	AA
TABLE OF B MEANS (Balance)						
1	Untreated	-	-	10.3-	0.1-	0.1a
2	Balance	100g/ha	B	10.4-	0.0-	0.0b
TABLE OF A x B MEANS (Main Herbicide without Balance)						
1	Untreated	-	-	10.6-	2.4a	0.6-
2	Sakura	118g/ha	A	10.5-	0.4bc	0.2-
3	Outlook	1000ml/ha	A	10.8-	0.1cd	0.0-
4	Outlook	1000ml/ha	A	10.9-	0.0d	0.0-
	Gp G S	75g/ha	A			
5	Boxer Gold	2500ml/ha	A	10.6-	0.0d	0.1-
6	Triflurx	1700ml/ha	A	11.8-	0.0d	0.3-
7	Rifle	2250ml/ha	A	9.4-	0.2cd	0.1-
8	Dual Gold	250ml/ha	B	9.5-	0.2cd	0.6-
9	Terbyne Xtreme	1000g/ha	A	10.4-	0.0d	0.0-
	Avadex Xtra	1600ml/ha	A			
10	Terbyne Xtreme	1000g/ha	A	10.9-	0.0d	0.0-
	Triflurx	1700ml/ha	A			
11	Simagranz	1500g/ha	B	10.2-	0.0cd	0.1-
12	Terbyne Xtreme	1200g/ha	B	8.9-	0.2cd	0.0-
13	Gp D R	1000ml/ha	B	9.9-	1.3ab	0.1-
14	Rifle	1500ml/ha	B	9.8-	0.0cd	0.0-
	Balance	100g/ha	B			
(Main Herbicide followed by Balance)						
1a	Untreated	-	-	10.5-	0.0d	0.0-
	Balance	100g/ha	B			
2a	Sakura	118g/ha	A	10.6-	0.0cd	0.0-
	Balance	100g/ha	B			
3a	Outlook	1000ml/ha	A	11.5-	0.0cd	0.0-
	Balance	100g/ha	B			
4a	Outlook	1000ml/ha	A	10.6-	0.0d	0.0-
	Gp G S	75g/ha	A			
	Balance	100g/ha	B			
5a	Boxer Gold	2500ml/ha	A	10.8-	0.0d	0.0-
	Balance	100g/ha	B			
6a	Triflurx	1700ml/ha	A	10.5-	0.0d	0.0-
	Balance	100g/ha	B			
7a	Rifle	2250ml/ha	A	9.6-	0.0d	0.0-
	Balance	100g/ha	B			
8a	Dual Gold	250ml/ha	B	10.1-	0.0d	0.0-
	Balance	100g/ha	B			
9a	Terbyne Xtreme	1000g/ha	A	10.0-	0.0d	0.0-
	Avadex Xtra	1600ml/ha	A			
	Balance	100g/ha	B			

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Trial ID: LB1518 **Location:** Condamine **Trial Year:** 2015

Pest Scientific Name / Pest Name					*Conzya bonariensis* Flaxleaf Fleabane	*Tetragonia tetragonioides* NZ spinach
Crop Name				Chickpea		
Crop Variety				PBA HatTrick		
Assessment Date				23/06/2015	17/09/2015	17/09/2015
Assessment Type				EMERGENCE	COUNT	COUNT
Assessment Unit				/m²	/m²	/m²
Treatment-Evaluation Interval				34 DAA	120 DAA	120 DAA
ARM Action Codes				AL	AA	AA
Trt No.	Treatment	Product Rate	Appln. Code			
10a	Terbyne Xtreme	1000g/ha	A	10.5-	0.0d	0.0-
	Triflurx	1700ml/ha	A			
	Balance	100g/ha	B			
11a	Simagranz	1500g/ha	B	10.0-	0.0d	0.0-
	Balance	100g/ha	B			
12a	Terbyne Xtreme	1200g/ha	B	10.4-	0.0d	0.0-
	Balance	100g/ha	B			
13a	Gp D R	1000ml/ha	B	10.1-	0.1cd	0.0-
	Balance	100g/ha	B			

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

ARM Action Codes
AL = Automatic log transformation of X+1
AA = Automatic arcsine square root % transformation

DAA = Days after Application

COMPLETE STRIP-BLOCK AOV
Chickpea - PBA HatTrick
23/06/2015
EMERGENCE /m² 34 DAA AL

Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	111	0.352158				
R	3	0.003566	0.001189	0.667	0.5776	
A	13	0.042831	0.003295	0.584	0.8514	0.1
RA	39	0.219849	0.005637			
B	1	0.000273	0.000273	9.050	0.0573	0.0
RB	3	0.000090	0.000030			
AB	13	0.016020	0.001232	0.691	0.7596	0.1
RAB	39	0.069530	0.001783			

COMPLETE STRIP-BLOCK AOV
***Conzya bonariensis* - Flaxleaf Fleabane**
17/09/2015
COUNT /m² 120 DAA AA

Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	111	1248.332238				
R	3	59.892888	19.964296	3.128	0.0365	
A	13	225.707981	17.362152	1.721	0.0949	3.2
RA	39	393.489106	10.089464			
B	1	110.999765	110.999765	7.962	0.0666	2.2
RB	3	41.825401	13.941800			
AB	13	167.495530	12.884272	2.019	**0.0455**	3.6
RAB	39	248.921568	6.382604			

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COMPLETE STRIP-BLOCK AOV *Tetragonia tetragoniodes* - NZ spinach 17/9/15 COUNT /m² 120 DAA AA						
Source	**DF**	**Sum of Squares**	**Mean Square**	**F**	**Prob.(F)**	**LSD (.05)**
Total	111	465.373081				
R	3	3.126757	1.042252	0.327	0.8055	
A	13	61.610966	4.739305	1.339	0.2332	1.9
RA	39	138.032623	3.539298			
B	1	59.387501	59.387501	41.719	**0.0075**	0.7
RB	3	4.270542	1.423514			
AB	13	74.787100	5.752854	1.807	0.0769	2.5
RAB	39	124.157592	3.183528			

Application Description		
	A	**B**
Application Date:	**20/05/2015**	**26/05/2015**
Application Start Time:	**10:00 AM**	**1:40 PM**
Application Stop Time:	**10:50 AM**	**2:30 PM**
Application Method:	**SPRAY**	
Application Timing:	**Pre-Plant**	**PSPE**
Air Temperature, Unit:	**24 C**	**20 C**
% Relative Humidity:	**57**	**43**
Wind Velocity, Unit:	**11 km/h**	**2 km/h**
Wind Direction:	**N**	
Dew Presence (Y/N):	**No**	
Soil Moisture:	**DRY**	
% Cloud Cover:	**60**	**80**
Next Moisture Occurred On:	**21/05/2015**	**1/06/2015**

Application Equipment		
	A	**B**
Application Equipment:	**Quad mounted**	
Equipment Type:	**Boom**	
Operation Pressure, Unit:	**310 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:	**10.3 km/h**	
Spray Volume, Unit:	**70 L/ha**	