

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.

Chickpea Problem Weeds

Trial ID: LB1714

Location: Millmerran
Investigator: Linda Bailey

Trial Year: 2017

Objective:	To screen herbicides for problem weed management in Chickpeas
Planting Date:	19/06/2017
Planting Equipment:	Commercial Double Disc Planter
Row Spacing:	30cm
Application Date:	21/06/2017
Application Timing:	Post Sowing Pre-Emergent
Keywords:	Slender Celery, Mayne's Pest, Chickpea, residual
NB: All treatments applied PSPE	

Pest Scientific Name			Chickpea PBA HatTrick	CyclospERMum leptophyllum Slender Celery		Glandularia aristigERIA Mayne's Pest		Bulbine bulbosa Native Leek	
Pest Name				11/07/2017 EMERGENCE /m² 05 V3	16/08/2017 COUNT /m²	19/09/2017 COUNT /m²	16/08/2017 COUNT /m²	19/09/2017 COUNT /m²	16/08/2017 COUNT /m²
Crop Name									
Crop Variety									
Assessment Date									
Assessment Type									
Assessment Unit									
Crop Stage Majority									
Pest Stage Majority									
Assessment Timing									
Treatment-Evaluation Interval									
ARM Action Codes									
Trt No.	Treatment	Product Rate							
1	Untreated	-	24-	0.33ab	0.58a	0.37a	0.77a	0.4-	
2	Balance	100g/ha	25-	0.05c	0.13b	0.00bc	0.01b	0.4-	
3	Balance	50g/ha	26-	0.04c	0.05bc	0.00c	0.00b	0.3-	
	Simazine 900 DF	1000g/ha							
4	Balance	100g/ha	25-	0.07c	0.05bc	0.05b	0.03b	0.8-	
	Simazine 900 DF	1000g/ha							
5	Balance	100g/ha	28-	0.01c	0.01bc	0.00bc	0.00b	0.3-	
	Terbyne Xtreme	860g/ha							
6	Balance	100g/ha	25-	0.01c	0.01c	0.00c	0.00b	0.9-	
	Bladex	2200g/ha							
7	Balance	100g/ha	23-	0.04c	0.03bc	0.02bc	0.01b	0.3-	
	Diuron	830g/ha							
8	Balance	100g/ha	24-	0.01c	0.01bc	0.00bc	0.03b	0.4-	
	Sakura	118g/ha							
9	Balance	100g/ha	28-	0.03c	0.03bc	0.02bc	0.01b	0.4-	
	Outlook	1000ml/ha							
10	Balance	100g/ha	26-	0.07c	0.11bc	0.00bc	0.00b	0.8-	
	Rifle 440	2500ml/ha							
11	Terbyne Xtreme	860g/ha	25-	0.06c	0.08bc	0.00c	0.00b	0.7-	
	Spinnaker	20g/ha							
12	Balance	100g/ha	27-	0.01c	0.07bc	0.00c	0.00b	0.2-	
	Terbyne Xtreme	860g/ha							
	Spinnaker	20g/ha							
13	Balance	100g/ha	25-	0.04c	0.03bc	0.00c	0.00b	0.7-	
	Experimental 1	1800ml/ha							
14	Balance	100g/ha	28-	0.10bc	0.10bc	0.03bc	0.04b	0.3-	
	Prometryn 900DF	830g/ha							
15	Untreated	-	25-	0.35a	0.44a	0.37a	0.50a	0.5-	
LSD P=			nsd	1.461t	1.594t	1.095t	1.419t	nsd	
Treatment Prob.(F)=			0.8385	0.0035	0.0002	0.0001	0.0001	0.5431	

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.

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

Chickpea Problem Weeds

Trial ID: LB1714

Location: Millmerran

Trial Year: 2017

Pest Scientific Name			<i>Rapistrum rugosum</i>	<i>Vicia sativa</i> spp <i>nigra</i>
Pest Name			Turnip Weed	Narrow-leaved Vetch
Assessment Date			16/08/2017	16/08/2017
Assessment Type			COUNT	COUNT
Assessment Unit			/m ²	/m ²
Pest Stage Majority			16	51
Treatment-Evaluation Interval			56 DAA	56 DAA
ARM Action Codes			T4	AA T6
Trt No.	Treatment	Product Rate		
1	Untreated	-	0.94a	0.2-
2	Balance	100g/ha	0.03b	0.1-
3	Balance	50g/ha	0.01b	0.3-
	Simazine 900 DF	1000g/ha		
4	Balance	100g/ha	0.04b	0.4-
	Simazine 900 DF	1000g/ha		
5	Balance	100g/ha	0.00b	0.1-
	Terbyne Xtreme	860g/ha		
6	Balance	100g/ha	0.08b	0.1-
	Bladex	2200g/ha		
7	Balance	100g/ha	0.00b	0.0-
	Diuron	830g/ha		
8	Balance	100g/ha	0.04b	0.2-
	Sakura	118g/ha		
9	Balance	100g/ha	0.00b	0.3-
	Outlook	1000ml/ha		
10	Balance	100g/ha	0.04b	0.1-
	Rifle 440	2500ml/ha		
11	Terbyne Xtreme	860g/ha	0.03b	0.2-
	Spinnaker	20g/ha		
12	Balance	100g/ha	0.00b	0.1-
	Terbyne Xtreme	860g/ha		
	Spinnaker	20g/ha		
13	Balance	100g/ha	0.04b	0.4-
	Experimental 1	1800ml/ha		
14	Balance	100g/ha	0.03b	0.1-
	Prometryn 900DF	830g/ha		
15	Untreated	-	1.03a	0.5-
LSD P=			0.507	nsd
Treatment Prob.(F)=			0.0006	0.9364

Pest Stage Majority

13 = 3 True leaves, leaf pairs or whorls unfolded

17 = 7 True leaves, leaf pairs or whorls unfolded

16 = 6 True leaves, leaf pairs or whorls unfolded

51 = Inflorescence or flower buds visible

ARM Action Codes

AA = Automatic arcsine square root % transformation

DAA = Days after Application

Chickpea Problem Weeds

Trial ID: LB1714

Location: Millmerran

Trial Year: 2017

Conclusions:

There was no impact on chickpea emergence count from any treatment.

At 8 weeks after application, all treatments provided significant levels of control of three of the weed species present (slender celery >70% control, Mayne's pest >86% control and turnip weed >91% control). At the same assessment poor levels of efficacy were apparent against native leek and narrow-leaved vetch. There were no clear differences between treatments in level of control of any weed.

Assessment at 13 weeks after application (after a new germination of slender celery and Mayne's pest) showed significant levels of residual control from all treatments. All treatments provided >95% control of Mayne's pest with no difference between treatments. All treatments provided >78% control of slender celery. Differences between treatments were minor with Balance 100g/ha significantly poorer than the Balance + Bladex mixture.

No herbicide treatment appeared to provide improved control of slender celery than the Balance + Simazine standard.

Application Description	
Application Date:	21/06/2017
Application Start Time:	11:40 AM
Application Stop Time:	1:15 PM
Application Method:	SPRAY
Application Timing:	PSPE
Application Placement:	SOIL
Air Temperature, Unit:	18 C
% Relative Humidity:	50
Wind Velocity, Unit:	6 km/h
Wind Direction:	S
Dew Presence (Y/N):	No
Soil Moisture:	DRY
% Cloud Cover:	0
Next Moisture Occurred On:	29/06/2017

Application Equipment	
Application Equipment:	Quad bike
Equipment Type:	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
Carrier:	Water
Spray Volume, Unit:	100 L/ha