Problem Weed Control in Chickpeas 2016 – Slender Celery

Trial ID: LB1612 **Location:** Pittsworth **Trial Year:** 2016
Investigator: Linda Bailey

Planting Date:	**15/06/2016**
Planting Equipment:	**Commercial Single Disc Planter**
Row Spacing:	**50cm**
Application Date:	**17/06/2016**
Application Timing:	**Post Sowing, Pre-Emergent Chickpeas**
Weed Stage at Application:	**Pre-Emergent**

Crop Name			**Chickpea**			
Crop Variety			**PBA Boundary**			
Pest Scientific Name				***Cyclospermum leptophyllum***		
Pest Name				**Slender Celery**		
Assessment Date			**12/07/2016**	**5/08/2016**	**18/08/2016**	**13/09/2016**
Assessment Type			**EMERGENCE**	**COUNT**	**COUNT**	**COUNT**
Assessment Unit			**/m²**	**/m²**	**/m²**	**/m²**
Crop Stage Majority			**V1**			
Pest Stage Majority				**12**		
Treatment-Evaluation Interval			**25 DAA**	**49 DAA**	**62 DAA**	**88 DAA**
ARM Action Codes			**T1**	**AL T4**	**AL T8**	**AL T12**
Trt No.	**Treatment**	**Product Rate**				
1	Untreated	-	26.9-	0.03-	0.22-	0.50-
2	Balance	50g/ha	26.9-	0.00-	0.00-	0.00-
3	Balance	70g/ha	27.3-	0.06-	0.19-	0.26-
4	Balance	100g/ha	27.7-	0.00-	0.00-	0.03-
5	Balance Simagranz	50g/ha 1000g/ha	25.9-	0.81-	1.49-	1.54-
6	Balance Simagranz	100g/ha 1000g/ha	22.7-	0.00-	0.00-	0.22-
7	Balance Terbyne Xtreme	50g/ha 700g/ha	27.0-	0.00-	0.10-	0.10-
8	Balance Terbyne Xtreme	100g/ha 700g/ha	24.3-	0.00-	0.00-	0.03-
9	Balance Bladex	100g/ha 1700g/ha	22.4-	0.00-	0.00-	0.22-
10	Balance Diuron	100g/ha 830g/ha	25.4-	0.00-	0.00-	0.00-
11	Balance Sakura	100g/ha 118g/ha	24.7-	0.00-	0.00-	0.00-
12	Balance Outlook	100g/ha 1000ml/ha	19.4-	0.00-	0.00-	0.00-
13	Balance Gp D S	100g/ha 2176ml/ha	23.9-	0.00-	0.00-	0.03-
14	Balance Simagranz Gp B S	100g/ha 800g/ha 20g/ha	22.6-	0.00-	0.00-	0.00-
		LSD P=	nsd	nsd	nsd	nsd
		Treatment Prob.(F)=	0.5009	0.4898	0.4985	0.3261

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.
nsd = No significant difference

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Pest Scientific Name			*Cirsium vulgare*		*Sonchus oleraceus*	
Pest Name			Spear Thistle		Common Sowthistle	
Assessment Date			5/08/2016	13/09/2016	5/08/2016	13/09/2016
Assessment Type			COUNT	COUNT	COUNT	COUNT
Assessment Unit			/m²	/m²	/m²	/m²
Pest Stage Majority			13		13	
Treatment-Evaluation Interval			49 DAA	88 DAA	49 DAA	88 DAA
ARM Action Codes			T2	AA T10	T3	AA T11
Trt No.	Treatment	Product Rate				
1	Untreated	-	0.10a	0.06-	0.10a	0.60a
2	Balance	50g/ha	0.00c	0.00-	0.03b	0.01b
3	Balance	70g/ha	0.03bc	0.02-	0.00c	0.00b
4	Balance	100g/ha	0.00c	0.02-	0.00c	0.01b
5	Balance Simagranz	50g/ha 1000g/ha	0.07ab	0.01-	0.00c	0.04b
6	Balance Simagranz	100g/ha 1000g/ha	0.03bc	0.04-	0.00c	0.00b
7	Balance Terbyne Xtreme	50g/ha 700g/ha	0.00c	0.01-	0.00c	0.01b
8	Balance Terbyne Xtreme	100g/ha 700g/ha	0.00c	0.02-	0.00c	0.00b
9	Balance Bladex	100g/ha 1700g/ha	0.00c	0.00-	0.00c	0.00b
10	Balance Diuron	100g/ha 830g/ha	0.00c	0.00-	0.00c	0.01b
11	Balance Sakura	100g/ha 118g/ha	0.00c	0.00-	0.00c	0.00b
12	Balance Outlook	100g/ha 1000ml/ha	0.00c	0.00-	0.00c	0.01b
13	Balance Gp D S	100g/ha 2176ml/ha	0.00c	0.00-	0.00c	0.00b
14	Balance Simagranz Gp B S	100g/ha 800g/ha 20g/ha	0.00c	0.01-	0.00c	0.01b
		LSD P=	0.059	nsd	0.026	1.320t
		Treatment Prob.(F)=	0.0297	0.5341	0.0001	0.0001

Pest Stage Majority
12 = 2 true leaves, leaf pairs or whorls unfolded
13 = 3 true leaves, leaf pairs or whorls unfolded

ARM Action Codes
AL = Automatic log transformation of X+1
AA = Automatic arcsine square root % transformation
T1 = [C1]/0.5
T4 = LOG ([8] + 1)
T8 = LOG ([16] + 1)
T12 = LOG ([24] + 1)
T2 = [C3]/10
T10 = Arcsine square root percent ([20])
T3 = [C5]/10
T11 = Arcsine square root percent ([22])

DAA = Days after Application A

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Application Description	
Application Date:	17/06/2016
Application Start Time:	10:15 AM
Application Stop Time:	11:45 AM
Application Method:	SPRAY
Application Timing:	PSPE
Air Temperature, Unit:	20 C
% Relative Humidity:	63
Wind Velocity, Unit:	13 km/h
Wind Direction:	N
Dew Presence (Y/N):	No
Soil Moisture:	DRY
% Cloud Cover:	70
Next Moisture Occurred On:	20/06/2016

Application Equipment	
Application Equipment:	Quad Mounted
Equipment Type:	Boom Spray
Operation Pressure, Unit:	310 kPa
Nozzle Type:	AIXR
Nozzle Size:	110015
Nozzle Spacing, Unit:	50cm
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