

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.

Wild Oat Management in Chickpeas

Trial ID: LB1901

Location: Condamine
Investigator: Linda Bailey

Trial Year: 2019

Objective:	To evaluate the impact of soil levelling post-planting on wild oat efficacy and crop safety in chickpeas
Application Date:	30/05/2019
Nozzles:	AIXR110015
Volume:	100 L/ha
Application Timing:	Pre-plant with incorporation by sowing (IBS) 2 days later using commercial tyne planter
Planting Date:	01/06/2019
Variety:	PBA Seamer
Planting:	Moisture seeking, seed at ~5-10cm depth
Row Spacing:	30cm
Levelling Method:	Commercial prickle harrows
Keywords:	Residuals, Chickpeas

NB: Trial designed and analysed as a Strip Plot

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

How to interpret?

Is there a significant difference for
A x B Means ?

If YES

Table A x B Means analysis is the key
information

If NO (ie nsd)

Table A or Table B Means analysis is
the key information

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Crop Name Crop Variety Assessment Date Assessment Type Assessment Unit Crop Stage Majority Treatment-Evaluation Interval ARM Action Codes			Chickpea PBA Seamer 24/07/2019 EMERGENCE /m² 12 Nodes 53 DAP T1
Trt No.	Treatment	Product Rate	
TABLE OF A MEANS (Herbicide)			
1	Untreated	-	24.0-
2	Sakura	118 g/ha	28.8-
3	Boxer Gold	2500 ml/ha	23.9-
4	Experimental Gp K B	1800 ml/ha	19.9-
5	Avadex Xtra	1600 ml/ha	25.6-
6	TriflurX	1700 ml/ha	24.3-
7	Avadex Xtra	1600 ml/ha	27.2-
	TriflurX	1700 ml/ha	
8	Outlook	1000 ml/ha	24.4-
9	Rustler	1000 ml/ha	22.2-
10	Bladex	2200 g/ha	24.0-
11	Rifle 440	2500 ml/ha	26.1-
12	Terbyne Xtreme	1200 g/ha	21.9-
TABLE OF B MEANS (Levelling)			
1	Unlevelled		24.0-
2	Levelled		24.7-
TABLE OF A x B MEANS (Herbicide x Levelling)			
1	Untreated, Unlevelled	-	21.4-
1a	Untreated, Levelled	-	26.7-
2	Sakura, Unlevelled	118g/ha	28.9-
2a	Sakura, Levelled	118g/ha	28.6-
3	Boxer Gold, Unlevelled	2500ml/ha	23.1-
3a	Boxer Gold, Levelled	2500ml/ha	24.7-
4	Experimental Gp K B, Unlevelled	1800ml/ha	20.3-
4a	Experimental Gp K B, Levelled	1800ml/ha	19.4-
5	Avadex Xtra, Unlevelled	1600ml/ha	26.1-
5a	Avadex Xtra, Levelled	1600ml/ha	25.0-
6	TriflurX, Unlevelled	1700ml/ha	23.1-
6a	TriflurX, Levelled	1700ml/ha	25.6-

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

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Trt No.	Treatment	Product Rate	
7	Avadex Xtra, Unlevelled	1600ml/ha	27.2-
	TriflurX, Unlevelled	1700ml/ha	
7a	Avadex Xtra, Levelled	1600ml/ha	27.2-
	TriflurX, Levelled	1700ml/ha	
8	Outlook, Unlevelled	1000ml/ha	26.9-
8a	Outlook, Levelled	1000ml/ha	21.9-
9	Rustler, Unlevelled	1000ml/ha	21.1-
9a	Rustler, Levelled	1000ml/ha	23.3-
10	Bladex, Unlevelled	2200g/ha	23.6-
10a	Bladex, Levelled	2200g/ha	24.4-
11	Rifle 440, Unlevelled	2500ml/ha	27.5-
11a	Rifle 440, Levelled	2500ml/ha	24.7-
12	Terbyne Xtreme, Unlevelled	1200g/ha	24.7-
12a	Terbyne Xtreme, Levelled	1200g/ha	19.2-

COMPLETE STRIP-BLOCK AOV Chickpea cv. PBA Seamer 24/07/2019 EMERGENCE /m² 06 V12 53 DAP T1						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	71	1750.684799				
R	2	6.095679	3.047840	0.116	0.8912	
A	11	378.346836	34.395167	1.224	0.3285	6.3
RA	22	617.978395	28.089927			
B	1	8.111497	8.111497	2.310	0.2679	1.9
RB	2	7.021605	3.150802			
AB	12	154.041281	14.003753	0.532	0.8607	8.7
RAB	22	579.089506	26.322250			

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DAP = Days after Planting

Conclusions:

This trial was established to evaluate the pre-emergent control of wild oats in chickpea, the impact of levelling on herbicide efficacy and the impact of pre-emergent herbicides on the efficacy of post-emergent herbicide applications. The pre-emergent herbicides were applied on 31/05/19, just prior to sowing on 01/06/19 and levelling on 03/06/19.

At 53 days after planting, there were no significant differences in chickpea establishment due to the pre-emergent herbicides or the unlevelled/levelled treatment.

There was no wild emergence in the dry conditions experienced. No data was able to be generated on wild oat management and no post-emergent herbicides were applied.

Crop Description

Crop:	Chickpea
Variety:	PBA Seamer
Planting Date:	1/06/2019
Planting Method:	Direct Drilled
Planting Equipment:	TYNE
Row Spacing, Unit:	30 cm

Application Description

Application Date:	30/05/2019
Application Start Time:	3:30 PM
Application Stop Time:	5:30 PM
Application Timing:	IBS
Application Placement:	SOIL
Air Temperature, Unit:	19 C
% Relative Humidity:	37
Wind Velocity, Unit:	5.4 km/h
Wind Direction:	SW
Dew Presence (Y/N):	No
Soil Moisture:	DRY
% Cloud Cover:	50
Next Moisture Occurred On:	3/06/2019

Applicant Equipment

Applicant Equipment:	Polaris
Equipment Type:	BOOM
Operation Pressure, Unit:	300 kPa
Nozzle Type and Size:	AIXR 110015
Boom Height, Unit:	60 cm
Ground Speed, Unit:	7.2 km/h
Spray Volume, Unit:	100 L/ha