

**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 Desiccation - Product Evaluation

Trial ID: **LB1808**      Location: **Evanslea**      Trial Year: **2018**  
 Investigator: **Linda Bailey**

<b>Objective:</b>	<b>To evaluate the efficacy of Chickpea desiccation options</b>
<b>Planting:</b>	<b>15/06/2018 with Commercial Tyne Planter on 50cm row spacing at 15cm depth</b>
<b>Application Date:</b>	<b>30/11/2018 (~14 days prior to expected harvest)</b>
<b>Growth Stage at Application:</b>	<b>91% of pods physically mature (yellow/golden pod)</b>
<b>Application Volume:</b>	<b>100 L/ha</b>
<b>Application Nozzles:</b>	<b>AIXR110015</b>
<b>Harvest Date:</b>	<b>11/12/2018</b>
<b>Harvest Equipment:</b>	<b>Small Plot Harvester</b>
<b>Keywords:</b>	<b>Chickpea, desiccation</b>

NB: Sharpen is registered for chickpea desiccation at 34 g/ha when mixed with registered rates of glyphosate or paraquat plus crop oil. Sharpen at 34 g/ha plus crop oil was evaluated alone to evaluate the performance without the mixing partners.

Crop Name Crop Variety Assessment Date Assessment Type Assessment Unit Treatment-Evaluation Interval ARM Action Codes			Chickpea PBA HatTrick			
			7/12/2018 DISCOLOUR %	7/12/2018 LEAF DROP %	7/12/2018 STEM SNAP %	11/11/2018 YIELD t/ha
Trt No.	Treatment	Product Rate	7 DAA	7 DAA	7 DAA	11 DAA TY1
1	Untreated	-	85-	70-	78-	2.27-
2	Weedmaster Argo	1100ml/ha	83-	70-	70-	2.25-
3	Weedmaster Argo	1800ml/ha	89-	75-	78-	2.40-
4	Weedmaster Argo Ally	1100ml/ha 5g/ha	88-	73-	75-	2.27-
5	Weedmaster Argo Experimental	1100ml/ha 25g/ha	89-	83-	70-	2.14-
6	Weedmaster Argo Sharpen Hasten	1100ml/ha 9g/ha 1% v/v	89-	74-	88-	2.43-
7	Weedmaster Argo Sharpen Hasten	1100ml/ha 34g/ha 1% v/v	90-	79-	80-	1.95-
8	Sharpen Hasten	34g/ha 1% v/v	85-	69-	80-	2.13-
9	Gramoxone	800ml/ha	94-	80-	75-	2.19-
10	Gramoxone Sharpen Hasten	800ml/ha 9g/ha 1% v/v	90-	74-	85-	2.12-
11	Gramoxone Sharpen Hasten	800ml/ha 34g/ha 1% v/v	89-	73-	78-	2.06-
12	Reglone Chemwet 1000	3000ml/ha 0.2% v/v	91-	76-	75-	2.05-
LSD P= Treatment Prob.(F)=			nsd 0.2039	nsd 0.4300	nsd 0.7890	nsd 0.4284

Grain Yield cv= 12.6%

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

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

Missing data estimates are included in columns: Average=1, 2, 3, 5, 6, 7, 8, 9

nsd = No significant difference

## Chickpea Desiccation - Product Evaluation

Trial ID: LB1808                      Location: Evanslea                      Trial Year: 2018

Crop Name Crop Variety Assessment Date Assessment Type Assessment Unit			Chickpea PBA HatTrick			
			13/12/2018 PROTEIN %	13/12/2018 MOISTURE %	13/12/2018 TEST WEIGHT kg/hL	13/12/2018 SCREENING %
Trt No.	Treatment	Product Rate				
1	Untreated	-	25.3ab	9.8-	77-	4.0-
2	Weedmaster Argo	1100ml/ha	24.5e	9.9-	77-	3.6-
3	Weedmaster Argo	1800ml/ha	24.7cde	9.7-	76-	3.0-
4	Weedmaster Argo Ally	1100ml/ha 5g/ha	25.3a-d	9.6-	76-	3.3-
5	Weedmaster Argo Experimental	1100ml/ha 25g/ha	25.3abc	9.8-	76-	3.9-
6	Weedmaster Argo Sharpen Hasten	1100ml/ha 9g/ha 1% v/v	24.7cde	9.9-	76-	3.1-
7	Weedmaster Argo Sharpen Hasten	1100ml/ha 34g/ha 1% v/v	24.8b-e	9.8-	77-	3.8-
8	Sharpen Hasten	34g/ha 1% v/v	25.2a-d	9.7-	76-	3.6-
9	Gramoxone	800ml/ha	24.7de	9.7-	77-	3.5-
10	Gramoxone Sharpen Hasten	800ml/ha 9g/ha 1% v/v	24.9a-e	9.8-	76-	3.2-
11	Gramoxone Sharpen Hasten	800ml/ha 34g/ha 1% v/v	25.4a	9.6-	77-	3.5-
12	Reglone Chemwet 1000	3000ml/ha 0.2% v/v	25.2a-d	9.7-	77-	3.0-
LSD P=			0.61	nsd	nsd	1.15
Treatment Prob.(F)=			0.0386	0.8057	0.7453	0.6740

### Assessment Type

STEM SNAP = Measurement of stem dry down as indicator of harvest readiness. 10 plants/plot were twisted and evaluated. The % of plants were recorded where all stems had snapped in 2 twists.

LEAF DROP = Estimate of % of leaves dropped from plant

DISCOLOUR = Phytotoxicity - % discoloration

SCREENING = Grain screenings 4 mm screen - % defective grains

### ARM Action Codes

TY1 = 0.3703704\*[C4]

DAA = Days after Application

## Chickpea Desiccation - Product Evaluation

Trial ID: **LB1808**                      Location: **Evanslea**                      Trial Year: **2018**

### Objective:

To evaluate efficacy of chickpea desiccation options

### Conclusions:

Treatments were applied when ~91% of the grain were physiologically mature (yellow beak stage).

Leaf discolouration, leaf drop and stem 'snappiness' were assessed at 7 days after application with no significant differences found between any treatment and the Untreated.

The trial was harvested 11 days after application with grain quality testing undertaken 2 days later. There were no significant differences between the treatments for yield, moisture, test weight or screenings. Significant differences were found for protein levels, but with all treatments recording between 24.5% and 25.4% protein.

Applied at a crop stage of ~91% mature pods, there were no clear differences between desiccation treatments and the Untreated in yield or grain quality.

Application Description	
Application Date:	30/11/2018
Application Start Time:	7:15 AM
Application Stop Time:	10:15 AM
Application Method:	SPRAY
Application Timing:	PRE HARVEST
Application Placement:	FOLIAR
Air Temperature, Unit:	23 C
% Relative Humidity:	64
Wind Velocity, Unit:	6.4 km/h
Wind Direction:	E
Dew Presence (Y/N):	No
% Cloud Cover:	20
Next Moisture Occurred On:	18/11/2018

Crop Stage at Application	
Crop:	Chickpea
Stage Scale Used:	GRDC
Stage Majority, %:	19 R12    90%
Stage Minimum, %:	18 R11    10%
Stage Maximum, %:	19 R12    90%
Height, Unit:	40 cm

Application Equipment	
Application Equipment:	Quad Bike
Operation Pressure, Unit:	350 kPa
Nozzle Type:	AIXR
Nozzle Size:	110015
Nozzle Spacing, Unit:	50 cm
Boom Length, Unit:	4 m
Boom Height, Unit:	90 cm
Ground Speed, Unit:	7.2 km/h
Carrier:	Water
Spray Volume, Unit:	100 L/ha