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## Chickpea Desiccation 2017

**Trial ID:** BD1717      **Location:** Mullaley      **Trial Year:** 2017  
**Investigator:** Branko Duric

<b>Objective:</b>	<b>To evaluate alternatives for Chickpea desiccation</b>
<b>Application Date:</b>	<b>3/11/2017</b>
<b>Application Timing:</b>	<b>Approx. 2 weeks prior to Harvest</b>
<b>Crop Stage Majority at Application:</b>	<b>90% Pods Mature</b>
<b>Planting Date:</b>	<b>26/06/2017</b>
<b>Planting Equipment:</b>	<b>Commercial Single Disc Planter</b>
<b>Row Spacing:</b>	<b>32cm</b>
<b>Harvest Date:</b>	<b>27/11/2017</b>
<b>Harvest Equipment:</b>	<b>Small Plot Header</b>
<b>Keywords:</b>	<b>Desiccation, harvest aid, Chickpea</b>

Crop Name Crop Variety Description Part Assessed Assessment Date Assessment Type Assessment Unit Crop Stage Majority Treatment-Evaluation Interval ARM Action Codes			Chickpea PBA Seamer				
			% Leaf Drop PLANT 20/11/2017 LEAF DROP %	% Brownout PLANT 20/11/2017 DISCOLOUR %	% Plants Snapped BRANCH 20/11/2017 ROPINESS %	27/11/2017 SCREENING %	27/11/2017 YIELD t/ha 19 R12 24 DAA TY1
Trt No.	Treatment	Product Rate					
1	Untreated	-	85e	83c	34-	12.3-	2.73-
2	Weedmaster Argo	1100ml/ha	98ab	96ab	62-	11.2-	2.69-
3	Weedmaster Argo	1800ml/ha	93a-d	95ab	78-	15.8-	2.69-
4	Weedmaster Argo Ally	1100ml/ha 5g/ha	99a	98ab	88-	5.3-	2.74-
5	Weedmaster Argo Experimental 1	1100ml/ha 25g/ha	95a-d	96ab	78-	11.0-	2.73-
6	Weedmaster Argo Sharpen Hasten	1100ml/ha 9g/ha 1% v/v	94a-d	96ab	58-	8.9-	2.66-
7	Weedmaster Argo Sharpen Hasten	1100ml/ha 18g/ha 1% v/v	95a-d	94abc	47-	11.6-	2.71-
8	Weedmaster Argo Sharpen Hasten	1100ml/ha 26g/ha 1% v/v	94a-d	97ab	65-	8.6-	2.84-
9	Weedmaster Argo Sharpen Hasten	1100ml/ha 34g/ha 1% v/v	91b-e	93bc	76-	7.6-	2.82-
10	Weedmaster Argo Sharpen Hasten	1800ml/ha 9g/ha 1% v/v	99a	99ab	87-	9.9-	2.90-
11	Gramoxone	800ml/ha	90cde	97ab	81-	9.5-	2.72-
12	Gramoxone Sharpen Hasten	800ml/ha 9g/ha 1% v/v	91b-e	93bc	82-	10.7-	2.77-
13	Gramoxone Sharpen Hasten	800ml/ha 18g/ha 1% v/v	94a-d	100a	64-	13.2-	2.56-

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. Excluded replicate 2 in column 8

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Trt No.	Treatment	Product Rate					
14	Gramoxone Sharpen Hasten	800ml/ha 26g/ha 1% v/v	96abc	100a	87-	13.6-	2.64-
15	Gramoxone Sharpen Hasten	800ml/ha 34g/ha 1% v/v	94a-d	100a	91-	11.8-	2.67-
16	Reglone Chemwet 1000	2000ml/ha 0.2% v/v	89de	96ab	75-	12.7-	2.63-
17	Experimental 2 Hasten	800ml/ha 1% v/v	91b-e	93bc	72-	9.0-	2.54-
18	Experimental 3	1500ml/ha	93a-d	99ab	85-	10.4-	2.91-
LSD P= Treatment Prob.(F)= CV=			7.2 0.0451	11.1t 0.0334	21.2t 0.0749	nsd 0.1073	nsd 0.1019 5.9

### Assessment Type

LEAF DROP = % of Leaves dropped from plant

DISCOLOUR = Phytotoxicity - discoloration

SCREENING = Grain screenings % defective grains

ROPINESS = 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.

### Treatment-Evaluation Interval

17 DAA = 17 Days after Application A 3/11/2017

24 DAA = 24 Days after Application A 3/11/2017

### ARM Action Codes

AA = Automatic arcsine square root % transformation

ER2 = Excluded replicate 2

TY1 =  $0.625 * [C4]$ 

### CROP STAGE MAJORITY

19 R12 = 90% of pods physiologically mature (golden yellow), usually ~140-200 days after planting depending on season and cultivar.

## Chickpea Desiccation 2017

Trial ID: BD1717

Location:

Mullaley

Trial Year:

2017

### Application Description

Application Date:	3/11/2017
Application Start Time:	10:45 AM
Application Stop Time:	1:00 PM
Application Method:	SPRAY
Application Placement:	FOLIAR
Air Temperature, Unit:	32 C
% Relative Humidity:	30
Wind Velocity, Unit:	0.5 MPS
Wind Direction:	W
Dew Presence (Y/N):	N no
% Cloud Cover:	0

### Crop Stage at Each Application

Crop 1 Code, BBCH Scale:	CIEAR
Stage Scale Used:	GRDC
Stage Majority, Percent:	19 R12

### Application Equipment

Operation Pressure, Unit:	300 kPa
Nozzle Type:	AIXR
Nozzle Size:	110015
Nozzle Spacing, Unit:	50 cm
Boom Length, Unit:	4 m
Boom Height, Unit:	50 cm
Ground Speed, Unit:	7.2 kph
Carrier:	WATER
Spray Volume, Unit:	100 L/ha