Chickpea Desiccation 2017

Trial ID: LB1706 **Location:** Pittsworth **Trial Year:** 2017
Investigator: Linda Bailey

Objective:	**To evaluate alternatives for Chickpea desiccation**
Application Date:	**20/10/2017**
Application Timing:	**Approx. 2 weeks prior to harvest**
Crop Stage Majority at Application:	**90% Pods mature**
Planting Date:	**29/05/2017**
Planting Equipment:	**Commercial Single Disc Planter**
Harvest Date:	**10/11/2017**
Harvest Equipment:	**Small Plot Header**
Keywords:	**Desiccation, harvest aid, Chickpea**

Crop Name			**Chickpea**			
Crop Variety			**PBA Seamer**			
Description			**Brownout**		**% Plants Snapped**	
Assessment Date			**2/11/2017**	**2/11/2017**	**2/11/2017**	**10/11/2017**
Assessment Type			**DISCOLOUR**	**LEAF DROP**	**ROPINESS**	**YIELD**
Assessment Unit			**%**	**%**	**%**	**t/ha**
Crop Stage Majority			**19 R12**	**19 R12**	**19 R12**	
Treatment-Evaluation Interval			**13 DAA**	**13 DAA**	**13 DAA**	**13 DAA**
ARM Action Codes			**AL**	**AL**		**TY1**
Trt No.	**Treatment**	**Product Rate**				
1	Untreated	-	51g	35g	35-	1.03-
2	Weedmaster Argo	1100ml/ha	84cd	66cde	43-	0.91-
3	Weedmaster Argo	1800ml/ha	91ab	74abc	53-	0.99-
4	Weedmaster Argo Ally	1100ml/ha 5g/ha	91ab	80a	58-	0.99-
5	Weedmaster Argo Experimental 1	1100ml/ha 25g/ha	87bc	70bcd	45-	0.94-
6	Weedmaster Argo Sharpen Hasten	1100ml/ha 9g/ha 1% v/v	92ab	74abc	60-	1.03-
7	Weedmaster Argo Sharpen Hasten	1100ml/ha 18g/ha 1% v/v	92ab	75ab	40-	1.05-
8	Weedmaster Argo Sharpen Hasten	1100ml/ha 26g/ha 1% v/v	91ab	72a-d	48-	0.99-
9	Weedmaster Argo Sharpen Hasten	1100ml/ha 34g/ha 1% v/v	94a	72a-d	50-	0.98-
10	Weedmaster Argo Sharpen Hasten	1800ml/ha 9g/ha 1% v/v	91ab	75ab	45-	0.97-
11	Gramoxone	800ml/ha	67f	57f	45-	0.96-
12	Gramoxone Sharpen Hasten	800ml/ha 9g/ha 1% v/v	80d	69b-e	58-	0.91-
13	Gramoxone Sharpen Hasten	800ml/ha 18g/ha 1% v/v	90ab	70bcd	48-	0.94-
14	Gramoxone Sharpen Hasten	800ml/ha 26g/ha 1% v/v	90ab	73abc	55-	0.99-

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Crop Name / Crop Variety			Chickpea PBA Seamer			
Description			**Brownout**		**% Plants Snapped**	
Assessment Date			**2/11/2017**	**2/11/2017**	**2/11/2017**	**10/11/2017**
Assessment Type			**DISCOLOUR**	**LEAF DROP**	**ROPINESS**	**YIELD**
Assessment Unit			**%**	**%**	**%**	**t/ha**
Crop Stage Majority			**19 R12**	**19 R12**	**19 R12**	
Treatment-Evaluation Interval			**13 DAA**	**13 DAA**	**13 DAA**	**13 DAA**
ARM Action Codes			**AL**	**AL**		**TY1**
Trt No.	**Treatment**	**Product Rate**				
15	Gramoxone Sharpen Hasten	800ml/ha 34g/ha 1% v/v	92ab	77ab	50-	0.97-
16	Reglone Chemwet	2000ml/ha 0.2% v/v	79de	61ef	47-	0.91-
17	Experimental 2 Adigor	800ml/ha 1% v/v	75e	65de	53-	0.98-
18	Experimental 3	1500ml/ha	89abc	72a-d	70-	0.85-
		LSD P=	0.0t	0.1t	nsd	nsd
		CV=				10.2
		Treatment Prob.(F)=	0.0001	0.0001	0.1441	0.4152

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.
Missing data estimates are included in columns: Average=3
nsd = No Significant Difference

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Crop Name / Crop Variety			Chickpea PBA Seamer	
Assessment Date			11/11/2017	11/11/2017
Assessment Type			PROTEIN	MOISTURE
Assessment Unit			%	%
Treatment-Evaluation Interval			22 DAA	22 DAA
ARM Action Codes			AL	AL
Trt No.	Treatment	Product Rate		
1	Untreated	-	23-	13.4a
2	Weedmaster Argo	1100ml/ha	23-	12.4bcd
3	Weedmaster Argo	1800ml/ha	24-	12.5bcd
4	Weedmaster Argo Ally	1100ml/ha 5g/ha	24-	12.5bcd
5	Weedmaster Argo Experimental 1	1100ml/ha 25g/ha	23-	12.6bcd
6	Weedmaster Argo Sharpen Hasten	1100ml/ha 9g/ha 1% v/v	23-	12.5bcd
7	Weedmaster Argo Sharpen Hasten	1100ml/ha 18g/ha 1% v/v	23-	12.6bcd
8	Weedmaster Argo Sharpen Hasten	1100ml/ha 26g/ha 1% v/v	24-	12.6bcd
9	Weedmaster Argo Sharpen Hasten	1100ml/ha 34g/ha 1% v/v	23-	12.2d
10	Weedmaster Argo Sharpen Hasten	1800ml/ha 9g/ha 1% v/v	23-	12.8bc
11	Gramoxone	800ml/ha	23-	12.6bc
12	Gramoxone Sharpen Hasten	800ml/ha 9g/ha 1% v/v	23-	12.6bcd
13	Gramoxone Sharpen Hasten	800ml/ha 18g/ha 1% v/v	23-	12.4cd
14	Gramoxone Sharpen Hasten	800ml/ha 26g/ha 1% v/v	23-	12.4bcd
15	Gramoxone Sharpen Hasten	800ml/ha 34g/ha 1% v/v	23-	12.4bcd
16	Reglone Chemwet	2000ml/ha 0.2% v/v	24-	12.5bcd
17	Experimental 2 Adigor	800ml/ha 1% v/v	23-	12.8b
18	Experimental 3	1500ml/ha	23-	12.5bcd
		LSD P=	nsd	0.01t
		Treatment Prob.(F)=	0.3221	0.0029

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Assessment Type
DISCOLOUR = Phytotoxicity - discoloration
ARM Action Codes
AL = Automatic log transformation of X+1
TY1 = 0.5446624*[4]
Crop Stage Majority
19 R12 = 90% pods physiologically mature (golden/yellow)

DAA = Days after Application

Application Description	
Application Date:	**20/10/2017**
Application Start Time:	**8:10 AM**
Application Stop Time:	**10:55 AM**
Application Method:	**SPRAY**
Application Timing:	**PREBLO**
Application Placement:	**FOLIAR**
Air Temperature, Unit:	**19 C**
% Relative Humidity:	**71**
Wind Velocity, Unit:	**10 km/h**
Wind Direction:	**NE**
Dew Presence (Y/N):	**No**
Soil Moisture:	**SLIWET**
% Cloud Cover:	**70**
Next Moisture Occurred On:	**21/10/2017**

Application Equipment	
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**