Chickpea Desiccation 2017

Trial ID: BD1710 **Location:** Bellata **Trial Year:** 2017
Investigator: Branko Duric

Objective:	**To evaluate alternatives for Chickpea desiccation**
Application Date:	**3/11/2017**
Application Timing:	**Approx. 2 weeks prior to Harvest**
Crop Stage Majority at Application:	**50% Pods Mature**
Planting Date:	**10/5/2017**
Planting Equipment:	**Commercial Single Disc Planter**
Harvest Date:	**16/11/2017**
Harvest Equipment:	**Small Plot Header**
Keywords:	**Desiccation, harvest aid, Chickpea**

Crop Name			**Chickpea**			
Crop Variety			**PBA Seamer**			
Description			**% Leaf Drop**	**% of Plants Snapped**		
Part Assessed				**BRANCH**		
Assessment Date			**13/11/2017**	**13/11/2017**	**16/11/2017**	**18/11/2017**
Assessment Type			**ESTIMATE**	**ROPINESS**	**YIELD**	**SCREENING**
Assessment Unit			**%**	**%**	**t/ha**	**%**
Crop Stage Majority			**19 R12**	**19 R12**		
Treatment-Evaluation Interval			**10 DAA**	**10 DAA**	**15 DAA**	
ARM Action Codes			**ER1**		**T1**	
Trt No.	**Treatment**	**Product Rate**				
1	Untreated	-	75f	60b-f	3.45-	8.9-
2	Weedmaster Argo	1100ml/ha	78ef	40ef	3.56-	9.5-
3	Weedmaster Argo	1800ml/ha	85cde	68b-e	3.90-	10.1-
4	Weedmaster Argo Ally	1100ml/ha 5g/ha	87b-e	100a	3.43-	10.0-
5	Weedmaster Argo Experimental 1	1100ml/ha 25g/ha	80ef	53b-f	3.62-	8.1-
6	Weedmaster Argo Sharpen Hasten	1100ml/ha 9g/ha 1% v/v	92a-d	70bcd	3.55-	6.8-
7	Weedmaster Argo Sharpen Hasten	1100ml/ha 18g/ha 1% v/v	83def	35f	3.68-	6.3-
8	Weedmaster Argo Sharpen Hasten	1100ml/ha 26g/ha 1% v/v	90a-d	70bcd	3.53-	10.0-
9	Weedmaster Argo Sharpen Hasten	1100ml/ha 34g/ha 1% v/v	92a-d	60b-f	4.02-	11.3-
10	Weedmaster Argo Sharpen Hasten	1800ml/ha 9g/ha 1% v/v	90a-d	53b-f	3.69-	6.9-
11	Gramoxone	800ml/ha	95ab	80ab	3.66-	8.8-
12	Gramoxone Sharpen Hasten	800ml/ha 9g/ha 1% v/v	93abc	58b-f	3.77-	9.7-
13	Gramoxone Sharpen Hasten	800ml/ha 18g/ha 1% v/v	92a-d	75abc	3.59-	10.2-

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.
Excluded replicate 1 in column 1
nsd = No Significant Difference

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Description			% Leaf Drop	% of Plants Snapped BRANCH		
Part Assessed						
Assessment Date			13/11/2017	13/11/2017	16/11/2017	18/11/2017
Assessment Type			ESTIMATE	ROPINESS	YIELD	SCREENING
Assessment Unit			%	%	t/ha	%
Crop Stage Majority			19 R12	19 R12		
Treatment-Evaluation Interval			10 DAA	10 DAA	15 DAA	
ARM Action Codes			ER1		T1	
Trt No.	Treatment	Product Rate				
14	Gramoxone Sharpen Hasten	800ml/ha 26g/ha 1% v/v	92a-d	68b-e	3.55-	6.9-
15	Gramoxone Sharpen Hasten	800ml/ha 34g/ha 1% v/v	93abc	60b-f	3.80-	6.2-
16	Reglone Chemwet 1000	2000ml/ha 0.2% v/v	85cde	45def	3.76-	12.1-
17	Experimental 2 Hasten	800ml/ha 1% v/v	92a-d	50c-f	3.48-	8.3-
18	Experimental 3	1500ml/ha	97a	55b-f	3.80-	6.7-
		LSD P=	9.6	28.3	nsd	nsd
		Treatment Prob.(F)=	0.0016	0.0097	0.1084	0.6255
		CV=			7.0	

Assessment Type

LEAF DROP = % of Leaves dropped from plant

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.

ARM Action Codes

ER1 = Excluded replicate 1

T1 = [C7]/1.6

CROP STAGE MAJORITY

19 R12 = 90% of pods physiologically mature (golden yellow)

DAA = Days after Application

Application Description	
Application Date:	**3/11/2017**
Application Start Time:	**10:45 AM**
Application Stop Time:	**2:00 PM**
Application Method:	**SPRAY**
Application Timing:	**PRE-HARVEST**
Application Placement:	**FOLIAR**
Air Temperature, Unit:	**32 C**
% Relative Humidity:	**30**
Wind Velocity, Unit:	**0.5 m/s**
Wind Direction:	**W**
Dew Presence (Y/N):	**No**
% Cloud Cover:	**0**

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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