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Chickpea Desiccation Timing

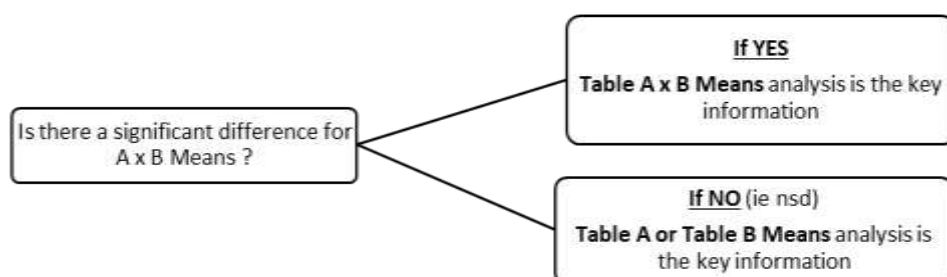
Trial ID: BD2005	Location: Bellata	Trial Year: 2020
Investigator: Branko Duric		

Objective:	To evaluate the impact of desiccation timing on chickpea yield and grain quality		
Crop:	Chickpea cv. PBA Seamer		
Planting Date:	17/05/2020		
Planting Details:	Small plot tyne planter on 32cm spacing		
Desiccation Application:	A (Timing 1)	B (Timing 2)	C (Timing 3)
Crop Maturity:	68% of pods physiologically mature	84% of pods physiologically mature	100% of pods physiologically mature
Application Date:	16/10/2020	21/10/2020	29/10/2020
Harvest Date:	21/10/2020 (5 days after application)	30/10/2020 (9 days after application)	5/11/2020 (7 days after application)
Keywords:	Desiccation, chickpea		

Trial designed and analysed as a Factorial

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

How to interpret?



NB Timing 1 was conducted to examine the impact of desiccation earlier than label recommendations. Glyphosate should not be applied until there are less than 15% green pods (85% of pods physiologically mature)

Chickpea Desiccation Timing

Trial ID: BD2005

Location: Bellata

Trial Year: 2020

Crop Name Crop Variety				Chickpea PBA Seamer			
				A: 21/10/2020 B: 30/10/2020 C: 5/11/2020 DISCOLOUR %	A: 21/10/2020 B: 30/10/2020 C: 5/11/2020 STEM SNAP %	A: 21/10/2020 B: 30/10/2020 C: 5/11/2020 YIELD t/ha	A: 22/10/2020 B: 31/10/2020 C: 6/11/2020 MOISTURE %
Assessment Date							
Assessment Type							
Assessment Unit							
Trt No.	Treatment	Product Rate	Appln. Code				
TABLE OF A MEANS (Timing)							
1	Timing 1 (68% Maturity)		A	90b	68b	2.40a	16.3a
2	Timing 2 (84% Maturity)		B	97a	94a	2.45a	14.9b
3	Timing 3 (100% Maturity)		C	98a	98a	2.20b	9.0c
TABLE OF B MEANS (Desiccant)							
1	Untreated			92c	84-	2.42-	13.3 -
2	Crucial	1600ml/ha		95ab	86-	2.32-	13.3 -
3	Crucial Ally	1000ml/ha 5g/ha		96a	91-	2.32-	13.4 -
4	Sharpen Hasten	34g/ha 1% v/v		93bc	90-	2.28-	13.4 -
5	Sharpen Ally Hasten	9g/ha 5g/ha 1% v/v		97a	88-	2.36-	13.4 -
6	Sharpen Ally Hasten	34g/ha 5g/ha 1% v/v		96ab	81-	2.39-	13.4 -
TABLE OF A x B MEANS (Timing x Desiccant)							
1a	Untreated	-	A	89 -	73de	2.44-	15.9c
2a	Crucial	1600 ml/ha	A	89 -	65 e	2.28 -	16.2 abc
3a	Crucial Ally	1000ml/ha 5g/ha	A	90 -	73de	2.35-	16.4ab
4a	Sharpen Hasten	34g/ha 1% v/v	A	88 -	80cd	2.39-	16.6a
5a	Sharpen Ally Hasten	9g/ha 5g/ha 1% v/v	A	93 -	70 de	2.46 -	16.4 ab
6a	Sharpen Ally Hasten	34g/ha 5g/ha 1% v/v	A	91 -	48 f	2.47 -	16.1 bc
1b	Untreated	-	B	93 -	88bc	2.58-	14.8d
2b	Crucial	1600ml/ha	B	96 -	93ab	2.44-	14.7d
3b	Crucial Ally	1000ml/ha 5g/ha	B	99 -	100a	2.44-	14.9d
4b	Sharpen Hasten	34g/ha 1% v/v	B	93 -	90 abc	2.27 -	14.8 d
5b	Sharpen Ally Hasten	9g/ha 5g/ha 1% v/v	B	100 -	98 ab	2.52 -	15.1 d
6b	Sharpen Ally Hasten	34g/ha 5g/ha 1% v/v	B	100 -	98 ab	2.44 -	14.9 d

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.

Chickpea Desiccation Timing

Trial ID: BD2005

Location: Bellata

Trial Year: 2020

Crop Name Crop Variety Description Assessment Type Assessment Unit				Chickpea			
				PBA Seamer			
				A: 21/10/2020 B: 30/10/2020 C: 5/11/2020 DISCOLOUR %	A: 21/10/2020 B: 30/10/2020 C: 5/11/2020 STEM SNAP %	A: 21/10/2020 B: 30/10/2020 C: 5/11/2020 YIELD t/ha	A: 22/10/2020 B: 31/10/2020 C: 6/11/2020 MOISTURE %
Trt No.	Treatment	Product Rate	Appln. Code				
1c	Untreated	-	C	94 -	93ab	2.25-	9.1ef
2c	Crucial	1600ml/ha	C	100 -	100a	2.26-	9.0ef
3c	Crucial Ally	1000ml/ha 5g/ha	C	100 -	100a	2.16-	9.0ef
4c	Sharpen Hasten	34g/ha 1% v/v	C	100 -	100 a	2.19 -	8.9 ef
5c	Sharpen Ally Hasten	9g/ha 5g/ha 1% v/v	C	98 -	95 ab	2.11 -	8.8 f
6c	Sharpen Ally Hasten	34g/ha 5g/ha 1% v/v	C	96 -	98 ab	2.26 -	9.3 e

Chickpea Desiccation Timing

Trial ID: BD2005 Location: Bellata Trial Year: 2020

Crop Name Crop Variety Description Assessment Type Assessment Unit ARM Action Codes				Chickpea PBA Seamer				
				Mature Grain COUNT %	Green Grain COUNT % AA	Yellow Grain COUNT % AA	Damaged Grain COUNT %	Shrivelled Grain COUNT %
Trt No.	Treatment	Product Rate	Appln. Code					
TABLE OF A MEANS (Timing)								
1	Timing 1 (68% Maturity)		A	83.1 b	1.2ta	2.2t a	0.6 b	0.3b
2	Timing 2 (84% Maturity)		B	95.4 a	0.0tb	0.0t b	0.6 b	0.6a
3	Timing 3 (100% Maturity)		C	96.3 a	0.0tb	0.0t c	2.8 a	0.5a
TABLE OF B MEANS (Desiccant)								
1	Untreated	-		91.3 -	0.1t-	0.2t -	1.2 -	0.4b
2	Crucial	1600ml/ha		92.4 -	0.1t-	0.2t -	1.5 -	0.5b
3	Crucial Ally	1000ml/ha 5g/ha		91.8 -	0.1t-	0.3t -	1.2 -	0.5b
4	Sharpen Hasten	34g/ha 1% v/v		90.0 -	0.4t-	0.3t -	1.4 -	0.4b
5	Sharpen Ally Hasten	9g/ha 5g/ha 1% v/v		92.2 -	0.2t-	0.4t -	1.4 -	0.5b
6	Sharpen Ally Hasten	34g/ha 5g/ha 1% v/v		91.8 -	0.1t-	0.3t -	1.2 -	0.7a
TABLE OF A x B MEANS (Timing x Desiccant)								
1a	Untreated	-	A	82.6 -	0.8t -	1.7t-	0.6 -	0.1g
2a	Crucial	1600ml/ha	A	84.5 -	1.0t -	2.2t-	0.5 -	0.4 c-f
3a	Crucial Ally	1000ml/ha 5g/ha	A	83.1 -	1.2t -	2.4t-	0.6 -	0.4 def
4a	Sharpen Hasten	34g/ha 1% v/v	A	79.7 -	1.6t -	2.5t-	0.6 -	0.3 ef
5a	Sharpen Ally Hasten	9 g/ha 5 g/ha 1 % v/v	A	85.0 -	1.5t -	2.3t-	0.5 -	0.2 fg
6a	Sharpen Ally Hasten	34 g/ha 5 g/ha 1 % v/v	A	83.5 -	1.3t -	2.3t-	0.6 -	0.6 a-d
1b	Untreated	-	B	94.3 -	0.0t -	0.0t-	0.5 -	0.8 a
2b	Crucial	1600ml/ha	B	96.8 -	0.0t -	0.0t-	1.1 -	0.4 b-f
3b	Crucial Ally	1000ml/ha 5g/ha	B	95.6 -	0.0t -	0.0t-	0.3 -	0.6 abc
4b	Sharpen Hasten	34 g/ha 1 % v/v	B	94.6 -	0.0t -	0.0t-	0.6 -	0.3 ef
5b	Sharpen Ally Hasten	9 g/ha 5 g/ha 1 % v/v	B	95.5 -	0.0t -	0.1t-	0.4 -	0.6 abc
6b	Sharpen Ally Hasten	34 g/ha 5 g/ha 1 % v/v	B	95.4 -	0.0t -	0.0t-	0.6 -	0.6 abc

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.

Chickpea Desiccation Timing

Trial ID: BD2005

Location: Bellata

Trial Year: 2020

Crop Name Crop Variety Description Assessment Type Assessment Unit ARM Action Codes				Chickpea PBA Seamer				
				Mature Grain COUNT %	Green Grain COUNT % AA	Yellow Grain COUNT % AA	Damaged Grain COUNT %	Shrivelled Grain COUNT %
Trt No.	Treatment	Product Rate	Appln. Code					
1c	Untreated	-	C	96.9 -	0.0t -	0.0t -	2.6 -	0.4b-f
2c	Crucial	1600ml/ha	C	96.0 -	0.0t -	0.0t -	3.0 -	0.6ab
3c	Crucial Ally	1000ml/ha 5g/ha	C	96.8 -	0.0t -	0.0t -	2.5 -	0.4b-f
4c	Sharpen Hasten	34 g/ha 1 % v/v	C	95.9 -	0.2t -	0.0t -	3.1 -	0.5b-f
5c	Sharpen Ally Hasten	9 g/ha 5 g/ha 1 % v/v	C	95.9 -	0.0t -	0.0t -	3.3 -	0.5b-e
6c	Sharpen Ally Hasten	34 g/ha 5 g/ha 1 % v/v	C	96.6 -	0.0t -	0.0t -	2.3 -	0.8a

Chickpea Desiccation Timing

Trial ID: BD2005 **Location:** Bellata **Trial Year:** 2020

Crop Name Crop Variety Description Assessment Type Assessment Unit				Chickpea PBA Seamer	
				Whole Intact Pods COUNT	GERMINATION
				%	%
Trt No.	Treatment	Product Rate	Appln. Code		
TABLE OF A MEANS (Timing)					
1	Timing 1 (68% Maturity)		A	12.5 a	94 -
2	Timing 2 (84% Maturity)		B	3.4 b	98 -
3	Timing 3 (100% Maturity)		C	0.3 c	96 -
TABLE OF B MEANS (Desiccant)					
1	Untreated			6.1 -	96 -
2	Crucial	1600ml/ha		4.5 -	98 -
3	Crucial	1000ml/ha		5.3 -	96 -
	Ally	5g/ha			
4	Sharpen	34g/ha		6.8 -	96 -
	Hasten	1% v/v			
5	Sharpen	9g/ha		4.6 -	95 -
	Ally	5g/ha			
	Hasten	1% v/v			
6	Sharpen	34g/ha		5.1 -	95 -
	Ally	5g/ha			
	Hasten	1% v/v			
TABLE OF A x B MEANS (Timing x Desiccant)					
1a	Untreated	-	A	14.0 -	92 -
2a	Crucial	1600ml/ha	A	11.4 -	98 -
3a	Crucial	1000ml/ha	A	12.2 -	94 -
	Ally	5g/ha			
4a	Sharpen	34g/ha	A	15.3 -	96 -
	Hasten	1% v/v			
5a	Sharpen	9g/ha	A	10.3 -	93 -
	Ally	5g/ha			
	Hasten	1% v/v			
6a	Sharpen	34g/ha	A	11.7 -	90 -
	Ally	5g/ha			
	Hasten	1% v/v			
1b	Untreated	-	B	4.3 -	99 -
2b	Crucial	1600ml/ha	B	1.6 -	99 -
3b	Crucial	1000ml/ha	B	3.5 -	99 -
	Ally	5g/ha			
4b	Sharpen	34g/ha	B	4.6 -	96 -
	Hasten	1% v/v			
5b	Sharpen	9g/ha	B	3.3 -	95 -
	Ally	5g/ha			
	Hasten	1% v/v			
6b	Sharpen	34g/ha	B	3.3 -	100 -
	Ally	5g/ha			
	Hasten	1% v/v			
1c	Untreated	-	C	0.2 -	98 -
2c	Crucial	1600ml/ha	C	0.5 -	98 -
3c	Crucial	1000ml/ha	C	0.3 -	96 -
	Ally	5g/ha			
4c	Sharpen	34g/ha	C	0.6 -	96 -
	Hasten	1% v/v			
5c	Sharpen	9g/ha	C	0.3 -	96 -
	Ally	5g/ha			
	Hasten	1% v/v			
6c	Sharpen	34g/ha	C	0.4 -	96 -
	Ally	5g/ha			
	Hasten	1% v/v			

Chickpea Desiccation Timing

Trial ID: BD2005

Location: Bellata

Trial Year: 2020

COMPLETE SPLIT-PLOT AOV Chickpea cv. PBA Seamer A: 21/10/2020, B: 30/10/2020, C: 5/11/2020 DISCOLOUR %						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	71	1971.875000				
R	3	12.152778	4.050926	0.354	0.7868	
A	2	918.750000	459.375000	35.124	0.0005	3
ERROR A	6	78.472222	13.078704			
B	5	223.958333	44.791667	3.909	0.0050	3
AB	10	222.916667	22.291667	1.945	0.0634	5
ERROR B	45	515.625000	11.458333			

COMPLETE SPLIT-PLOT AOV Chickpea cv. PBA Seamer A: 21/10/2020, B: 30/10/2020, C: 5/11/2020 STEM SNAP %						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	71	19431.944444				
R	3	59.722222	19.907407	0.261	0.8529	
A	2	12602.777778	6301.388889	203.149	0.0001	4
ERROR A	6	186.111111	31.018519			
B	5	840.277778	168.055556	2.205	0.0703	7
AB	10	2313.888889	231.388889	3.036	0.0051	12
ERROR B	45	3429.166667	76.203704			

COMPLETE SPLIT-PLOT AOV Chickpea cv. PBA Seamer H1: 21/10/2020, H2: 30/10/2020, H3: 5/11/2020 YIELD t/ha						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	71	2.073609				
R	3	0.191755	0.063918	4.406	0.0084	
A	2	0.793002	0.396501	70.170	0.0001	0.05
ERROR A	6	0.033904	0.005651			
B	5	0.155156	0.031031	2.139	0.0780	0.10
AB	10	0.246974	0.024697	1.702	0.1097	0.17
ERROR B	45	0.652818	0.014507			

COMPLETE SPLIT-PLOT AOV Chickpea cv. PBA Seamer A: 22/10/2020, B: 31/10/2020, C: 6/11/2020 MOISTURE %						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	70	722.615170				
R	3	1.241898	0.413966	4.190	0.0108	
A	2	712.794105	356.397052	1232.563	0.0001	0.4
ERROR A	6	1.734907	0.289151			
B	5	0.366373	0.073275	0.742	0.5965	0.3
AB	10	2.130525	0.213052	2.156	0.0395	0.4
ERROR B	44	4.347361	0.098804			

Chickpea Desiccation Timing

Trial ID: BD2005

Location:

Bellata

Trial Year:

2020

COMPLETE SPLIT-PLOT AOV Chickpea CV. PBA Seamer Mature Grain COUNT %						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	71	3230.906111				
R	3	35.578333	11.859444	1.147	0.3403	
A	2	2621.475278	1310.737639	459.662	0.0001	1.2
ERROR A	6	17.109167	2.851528			
B	5	44.221111	8.844222	0.856	0.5181	2.7
AB	10	47.384722	4.738472	0.458	0.9077	4.6
ERROR B	45	465.137500	10.336389			

COMPLETE SPLIT-PLOT AOV Chickpea cv. PBA Seamer Green Grain COUNT % AA						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	71	763.467084				
R	3	9.399236	3.133079	1.214	0.3156	
A	2	569.768998	284.884499	63.753	0.0001	1.5
ERROR A	6	26.811195	4.468532			
B	5	18.672416	3.734483	1.447	0.2262	1.3
AB	10	22.663507	2.266351	0.878	0.5599	2.3
ERROR B	45	116.151732	2.581150			

COMPLETE SPLIT-PLOT AOV Chickpea CV. PBA Seamer Yellow Grain COUNT % AA						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	71	1180.738989				
R	3	2.521955	0.840652	0.545	0.6537	
A	2	1090.698831	545.349416	1425.066	0.0001	0.4
ERROR A	6	2.296102	0.382684			
B	5	4.747709	0.949542	0.616	0.6881	1.0
AB	10	11.121969	1.112197	0.722	0.6999	1.8
ERROR B	45	69.352423	1.541165			

COMPLETE SPLIT-PLOT AOV Chickpea CV. PBA Seamer Damaged Grain COUNT %						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	71	96.963194				
R	3	1.958194	0.652731	3.358	0.0269	
A	2	78.638611	39.319306	81.032	0.0001	0.5
ERROR A	6	2.911389	0.485231			
B	5	1.277361	0.255472	1.314	0.2752	0.4
AB	10	3.429722	0.342972	1.764	0.0956	0.6
ERROR B	45	8.747917	0.194398			

Chickpea Desiccation Timing

Trial ID: BD2005

Location:

Bellata

Trial Year: 2020

COMPLETE SPLIT-PLOT AOV Chickpea CV. PBA Seamer Shrivelled Grain COUNT %						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	71	4.640000				
R	3	0.713333	0.237778	8.801	0.0001	
A	2	0.857500	0.428750	8.145	0.0195	0.2
ERROR A	6	0.315833	0.052639			
B	5	0.601667	0.120333	4.454	0.0022	0.1
AB	10	0.935833	0.093583	3.464	0.0019	0.2
ERROR B	45	1.215833	0.027019			

COMPLETE SPLIT-PLOT AOV Chickpea cv. PBA Seamer Whole Intact Pods COUNT %						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	71	2542.699444				
R	3	40.398333	13.466111	1.228	0.3105	
A	2	1900.733611	950.366806	280.747	0.0001	1.3
ERROR A	6	20.310833	3.385139			
B	5	48.486111	9.697222	0.884	0.4994	2.7
AB	10	39.339722	3.933972	0.359	0.9579	4.7
ERROR B	45	493.430833	10.965130			

COMPLETE SPLIT-PLOT AOV Chickpea cv. PBA Seamer 23/11/20200 GERMINATION %						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	71	2041.277778				
R	3	487.722222	162.574074	11.357	0.0001	
A	2	199.111111	99.555556	1.360	0.3257	6
ERROR A	6	439.111111	73.185185			
B	5	90.277778	18.055556	1.261	0.2972	3
AB	10	180.888889	18.088889	1.264	0.2793	5
ERROR B	45	644.166667	14.314815			

ARM Action Codes

AA = Automatic arcsine square root % transformation

Assessment Type

DISCOLOUR = Phytotoxicity - % discoloration

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

Chickpea Desiccation Timing

Trial ID: BD2005 **Location:** Bellata **Trial Year:** 2020

Conclusions:

This trial was designed to assess the impact of desiccant application timing whilst evaluating potential alternatives to glyphosate for chickpea desiccation. The objective was to evaluate application at ~70%, 80% and 90% pod maturity. Desiccants were applied to chickpea cv. PBA Seamer at ~68%, ~84% and ~100% grain maturity. Harvest was conducted 5 days after timing 1, 9 days after timing 2 and 7 days after timing 3. At each harvest, visual ratings of crop discoloration and leaf drop were conducted and a physical measure of stem dry down (stem snapping) was performed. Grain quality was evaluated within 24 hours of each harvest.

Differences between treatments for % discoloration were relatively minor with Sharpen 34g/ha plus Hasten alone the only treatment not providing significantly more discolouration than the untreated. Leaf drop data has not been presented as there were no significant treatment differences compared to the untreated and application timing was the only difference. There was no significant benefit in stem snapping from any treatment compared to the untreated at Timing 1 (immature) or Timing 3 (mature). Crucial (glyphosate) + Ally however provided significantly greater stem snapping than the untreated when applied at 84% pod maturity.

There were no significant desiccant treatment effects on yield, however mean yields at the harvest of T3 applications were reduced by ~0.2t/ha. This may be due to a combination of factors however lower grain moisture in the harvested grain can account for the majority of the difference. Grain moisture levels were high at Timing 1 and 2. A 9mm rain event occurred 2 days before harvest 1, whilst 75mm of rain fell between Timing 2 application and harvest. No treatment resulted in significantly lower grain moisture than the untreated at any harvest timing.

The main impact on visual grain grading was application timing. Early application resulted in significantly higher levels of whole pods (12% of sample), green and yellow grains (1 and 2% respectively) and consequently decreased mature grain. However there was no significant desiccant effect for any of these assessments. Damaged grain was impacted by application timing with significantly increased damaged grain when application was delayed and harvest conducted at ~9% moisture. There was no significant impact from desiccant treatments on grain quality other than for shrivelled grain, with less than 1% of grain shrivelled for all treatments.

In this trial, early desiccant application (~ 5 days) would have reduced receival grain quality. However there was no significant impact from the actual desiccant treatments on either yield or grain quality. The lack of treatment differences meant little information was generated on possible alternatives to glyphosate for chickpea desiccation.

Crop Description	
Crop:	<i>Cicer arietinum</i> - Chickpea
Variety:	PBA Seamer
Planting Date:	17/05/2020
Planting Equipment:	Small plot tyne planter
Row Spacing, Unit:	32cm
Harvest Dates:	A: 16/10/2020, B: 21/10/2020, C: 29/10/2020
Harvested Width, Unit:	2m
Harvested Length, Unit:	10m

Application Description			
	A	B	C
Application Date:	16/10/2020	21/10/2020	29/10/2020
Application Start Time:	8:00 AM		
Application Stop Time:	10:00 AM		
Application Method:	SPRAY		
Application Timing:	PRE-HARVEST		
Application Placement:	FOLIAR		
Applied By:	Kalyx		

Crop Stage at Each Application			
	A	B	C
Crop:	<i>Cicer arietinum</i> - Chickpea		
Stage Scale Used:	% pod maturity	% pod maturity	% pod maturity
Stage Majority, %:	68%	84%	100%

NB Timing 1 was conducted to examine the impact of desiccation earlier than label recommendations. Glyphosate should not be applied until there are less than 15% green pods (85% of pods physiologically mature)

Chickpea Desiccation Timing

Trial ID: BD2005 Location: Bellata Trial Year: 2020

Application Equipment			
	A	B	C
Application Equipment:	HBM009	HBM009	HBM009
Equipment Type:	BOOM	BOOM	BOOM
Operation Pressure, Unit:	300 kPa	300 kPa	300 kPa
Nozzle Type:	Flat fan AI	Flat fan AI	Flat fan AI
Nozzle Size:	11001	11001	11001
Nozzle Spacing, Unit:	50 cm	50 cm	50 cm
Boom Height, Unit:	50 cm	50 cm	50 cm
Ground Speed, Unit:	5.4 km/h	5.4 km/h	5.4 km/h
Spray Volume, Unit:	100 L/ha	100 L/ha	100 L/ha
Propellant:	PUMP	PUMP	PUMP