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Chickpea Desiccation Timing

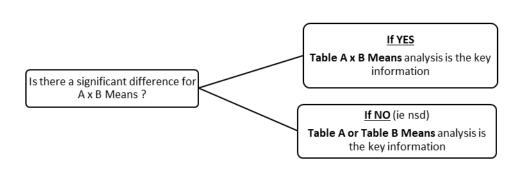
Trial ID: LB1917 Location: Pittsworth Trial Year: 2019

Investigator: Linda Bailey

Objective:	To evaluate the impact of desiccation timing on chickpea yield and grain quality				
Crop:	Chickpea cv. PBA HatTrick				
Planting Date:	05/07/2019				
Planting Equipment:	Disc Planter				
Row Spacing:	100cm				
Application Code:	A (Timing 1)	B (Timing 2)			
Application Date:	25/10/2019	30/10/2019			
Crop Stage at Application:	66% of pods physiologically mature	91% of pods physiologically mature			
Harvest Date:	1/11/2019 (7 Days after Application)	6/11/2019 (7 Days after Application)			
Keywords:	Chickpea, desiccant				

NB: Trial designed and analysed as a Split Plot

	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



Trial ID: LB1917 Location: Pittsworth Trial Year: 2019

-	Name Variety			Chickpeas PBA HatTrick					
Asses Asses	sment Dates sment Type sment Unit			A1: 1/11/2019 A2: 5/11/2019 DISCOLOUR %	A1: 1/11/2019	A1: 1/11/2019 A2: 5/11/2019 STEM SNAP %	A1: 1/11/2019 A2: 6/11/2019 YIELD t/ha		
Trt No.	Treatment	Product Rate	Appln. Code	76	76	70	t/lla		
TABL	E OF A MEANS (Timing)	1							
1	Timing 1 (66% maturity)		Α	67b	6.3-	85-	0.72-		
2	Timing 2 (91% maturity)		В	86a	8.1-	81-	0.65-		
TABL	E OF B MEANS (Desiccant)								
1	Untreated	-		63e	6.9-	81-	0.70-		
2	Crucial	1600ml/ha		79bc	6.9-	80-	0.70-		
3	Crucial	1000ml/ha		69de	7.5-	88-	0.67-		
	Ally	5g/ha							
4	Crucial	1000ml/ha		83b	7.5-	84-	0.77-		
	Sharpen	34g/ha							
	Hasten	1% v/v							
5	Crucial	1000ml/ha		73cd	6.9-	79-	0.65-		
	Sharpen	9g/ha							
	Ally	5g/ha							
	Hasten	1% v/v							
6	Gramoxone	800ml/ha		92a	7.5-	88-	0.63-		
TABL	E OF A x B MEANS (Timing x D						1		
1a	Untreated	-	Α	57e	5.0-	88-	0.66-		
2a	Crucial	1600ml/ha	Α	70d	6.3-	75-	0.70-		
3a	Crucial	1000ml/ha	Α	52e	6.3-	90-	0.72-		
	Ally	5g/ha							
4a	Crucial	1000ml/ha	Α	79cd	7.5-	88-	0.88-		
	Sharpen	34g/ha							
	Hasten	1% v/v							
5a	Crucial	1000ml/ha	Α	56e	5.0-	85-	0.65-		
	Sharpen	9g/ha							
	Ally	5g/ha							
	Hasten	1% v/v							
6a	Gramoxone	800ml/ha	Α	87abc	7.5-	88-	0.74-		
1b	Untreated	-	В	70d	8.8-	75-	0.74-		
2b	Crucial	1600ml/ha	В	89ab	7.5-	85-	0.69-		
3b	Crucial	1000ml/ha	В	85bc	8.8-	85-	0.62-		
	Ally	5g/ha							
4b	Crucial	1000ml/ha	В	86bc	7.5-	80-	0.67-		
	Sharpen	34g/ha							
	Hasten	1% v/v							
5b	Crucial	1000ml/ha	В	90ab	8.8-	73-	0.65-		
	Sharpen	9g/ha							
	Ally	5g/ha							
	Hasten	1% v/v							
6b	Gramoxone	800ml/ha	В	96a	7.5-	88-	0.52-		

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

C	N					Chilelen				
Crop I				Chickpeas PBA HatTrick						
1	Variety		_					T		
	iption			DDOTEIN	MOISTURE	Mature Grain	Green Grain	Yellow Grain		
	sment Type			PROTEIN	MOISTURE	COUNT	COUNT	COUNT		
Assessment Unit				%	%	%	%	%		
	Action Codes				AL		AA	AL		
Trt No.	Treatment	Product Rate	Appln. Code							
	OF A MEANS (Timing)	1.000	000.0							
1	Timing 1 (66% maturity)		Α	23.8b	14.9ta	89-	0.19t-	5.1ta		
2	Timing 2 (91% maturity)		В	25.1a	10.3tb	95-	0.00t-	0.5tb		
TABLE	E OF B MEANS (Desiccant)									
1	Untreated	=		24.3-	12.6tab	92-	0.21ta	2.0tab		
2	Crucial	1600ml/ha		24.1-	12.8ta	88-	0.10tabc	2.8ta		
3	Crucial	1000ml/ha		24.6-	13.3ta	91-	0.03tbcd	2.5tab		
	Ally	5g/ha								
4	Crucial	1000ml/ha		24.7-	11.9tbc	94-	0.02tcd	1.4tbc		
	Sharpen	34g/ha								
	Hasten	1% v/v								
5	Crucial	1000ml/ha		24.3-	13.1ta	89-	0.17tab	3.0ta		
	Sharpen	9g/ha								
	Ally	5g/ha								
	Hasten	1% v/v								
6	Gramoxone	800ml/ha		24.6-	11.1tc	95-	0.00td	0.9tc		
TABLE	OF A x B MEANS (Timing x D	esiccant)			_					
1a	Untreated	-	Α	23.8-	15.3ta	90-	0.83ta	5.8t-		
2a	Crucial	1600ml/ha	Α	23.5-	15.5ta	83-	0.19tb	6.7t-		
3a	Crucial	1000ml/ha	Α	23.8-	16.8ta	88-	0.11tbc	6.9t-		
	Ally	5g/ha								
4a	Crucial	1000ml/ha	Α	24.3-	13.6tb	93-	0.01tbc	3.2t-		
	Sharpen	34g/ha								
	Hasten	1% v/v								
5a	Crucial	1000ml/ha	Α	23.4-	16.8ta	83-	0.69ta	9.1t-		
	Sharpen	9g/ha - "								
	Ally	5g/ha								
C -	Hasten	1% v/v		24.0	12.11-	06	0.004-	4.04		
6a	Gramoxone	800ml/ha	A	24.0-	12.1tc	96- 95-	0.00tc	1.8t-		
1b 2b	Untreated Crucial	1600ml/ha	B B	24.9- 24.8-	10.3td	93-	0.00tc 0.04tbc	0.3t-		
2b 3b	Crucial	1600mi/na 1000ml/ha	В	24.8- 25.5-	10.5td 10.4td	93-	0.04tbc 0.00tc	0.9t- 0.6t-		
30	Ally	5g/ha	В	۷۵.۵-	10.410	33-	0.0010	0.01-		
4b	Crucial	1000ml/ha	В	25.1-	10.3td	95-	0.04tbc	0.4t-		
75	Sharpen	34g/ha	5	23.1	10.5ta))	0.0-1000	Jrt		
	Hasten	1% v/v								
5b	Crucial	1000ml/ha	В	25.1-	10.1td	96-	0.00tc	0.6t-		
2.2	Sharpen	9g/ha		23.1	10.110		0.000	0.50		
	Ally	5g/ha								
	Hasten	1% v/v								
6b	Gramoxone	800ml/ha	В	25.2-	10.1td	95-	0.00tc	0.2t-		

-	Name			Chickpea				
	Variety				1	HatTrick		
	iption			Damaged	Shrivelled	Whole Pods	Germination	
	sment Type			COUNT	COUNT	COUNT	COUNT	
Asses	sment Unit			%	%	%	%	
	Action Codes		1	AL	AA	AL		
Trt	Treatment	Product	Appln.					
No.		Rate	Code					
	E OF A MEANS (Timing)			0 = 1			0.51	
1	Timing 1 (66% maturity)		A	0.7tb	0.2t-	2.5ta	85b	
2	Timing 2 (91% maturity)		В	3.4ta	0.1t-	0.8tb	91a	
	E OF B MEANS (Desiccant)					1 0.1		
1	Untreated	-		2.0t-	0.1t-	1.0tbc	90-	
2	Crucial	1600ml/ha		1.4t-	0.3t-	2.7ta	86-	
3	Crucial	1000ml/ha		2.0t-	0.3t-	2.0tab	85-	
_	Ally	5g/ha		1.01	0.41	4 24-	03	
4	Crucial	1000ml/ha		1.9t-	0.1t-	1.3tbc	92-	
	Sharpen	34g/ha						
	Hasten	1% v/v		4.41	0.41	2.04-1-	05	
5	Crucial	1000ml/ha		1.4t-	0.1t-	2.0tab	85-	
	Sharpen	9g/ha						
	Ally	5g/ha						
	Hasten	1% v/v		4.71	0.24	0.04-	00	
6	Gramoxone	800ml/ha		1.7t-	0.3t-	0.8tc	90-	
	E OF A x B MEANS (Timing x De	esiccant)	Δ.	1.0+	0.24	1 14	00-6	
1a 2a	Untreated	- 1600ml/ha	A A	1.0t- 0.5t-	0.3t- 0.2t-	1.4t- 4.7t-	88ab 83bc	
-	Crucial Crucial		A	0.5t- 0.7t-			88ab	
3a		1000ml/ha	А	0.71-	0.3t-	3.0t-	8840	
4a	Ally Crucial	5g/ha 1000ml/ha	Α	0.9t-	0.1t-	2.2t-	88ab	
44		34g/ha	А	0.91-	0.11-	2.21-	oodu	
	Sharpen Hasten	34g/11a 1% v/v						
5a	Crucial	1000ml/ha	Α	0.6t-	0.1t-	5.1t-	72c	
Ja		9g/ha	А	0.61-	0.11-	5.11-	720	
	Sharpen Ally	5g/ha						
	Hasten	3g/11a 1% v/v						
6a	Gramoxone	800ml/ha	Α	0.5t-	0.5t-	0.8t-	93ab	
1b	Untreated		A B	3.7t-	0.5t-	0.6t-	93ab	
2b	Crucial	1600ml/ha	В	3.7t-	0.6t-	1.5t-	89ab	
3b	Crucial	1000ml/ha	В	4.0t-	0.3t-	1.2t-	82bc	
35	Ally	5g/ha	ט	7.01-	0.50-	1.21-	3250	
4b	Crucial	1000ml/ha	В	3.4t-	0.0t-	0.6t-	97a	
75	Sharpen	34g/ha	J	5.40	0.00	0.00	374	
	Hasten	1% v/v						
5b	Crucial	1000ml/ha	В	2.6t-	0.0t-	0.5t-	98a	
	Sharpen	9g/ha	5	2.00	0.00	0.50	300	
	Ally	5g/ha						
	Hasten	1% v/v						
6b	Gramoxone	800ml/ha	В	3.9t-	0.1t-	0.9t-	87ab	
	C. C	5551111/110		0.50	J.10	0.50	3,40	

COMPLETE SPLIT-PLOT AOV Chickpeas cv. PBA HatTrick DISCOLOUR %									
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)			
Total	47	11249.916667							
R	3	81.750000	27.250000	0.669	0.5779				
Α	1	4408.333333	4408.333333	956.024	0.0001	2			
ERROR A	3	13.833333	4.611111						
В	5	4179.916667	835.983333	20.516	0.0001	7			
AB	AB 5 1343.666667 268.733333 6.595 0.0003 9								
ERROR B	30	1222.416667	40.747222						

COMPLETE SPLIT-PLOT AOV Chickpeas cv. PBA HatTrick LEAF DROP %									
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)			
Total	47	295.312500							
R	3	5.729167	1.909722	0.322	0.8096				
Α	1	42.187500	42.187500	3.627	0.1530	3.1			
ERROR A	3	34.895833	11.631944						
В	5	4.687500	0.937500	0.158	0.9759	2.5			
AB	AB 5 29.687500 5.937500 1.000 0.4346 3.5								
ERROR B	30	178.125000	5.937500						

COMPLETE SPLIT-PLOT AOV Chickpeas cv. PBA HatTrick % STEM SNAP									
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)			
Total	47	7231.250000							
R	3	1556.250000	518.750000	4.269	0.0127				
Α	1	252.083333	252.083333	1.599	0.2953	12			
ERROR A	3	472.916667	157.638889						
В	5	568.750000	113.750000	0.936	0.4719	11			
AB	AB 5 735.416667 147.083333 1.210 0.3283 16								
ERROR B	30	3645.833333	121.527778						

	COMPLETE SPLIT-PLOT AOV							
	Chickpea cv. PBA HatTrick							
		1/11	L/201, 6/11/20	19				
		YIE	LD t/ha T1					
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)		
Total	47	1.234346						
R	3	0.083648	0.027883	1.100	0.3644			
Α	1	0.069864	0.069864	3.127	0.1752	0.14		
ERROR A	3	0.067027	0.022342					
В	5	0.100931	0.020186	0.796	0.5609	0.16		
AB	AB 5 0.152416 0.030483 1.203 0.3318 0.23							
ERROR B	30	0.760460	0.025349					

	COMPLETE SPLIT-PLOT AOV Chickpeas cv. PBA HatTrick 1/11/2019, 6/11/2019 PROTEIN %								
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)			
Total	47	48.539167							
R	3	8.189167	2.729722	6.783	0.0013				
Α	1	20.280000	20.280000	13.631	0.0345	1.1			
ERROR A	3	4.463333	1.487778						
В	B 5 2.166667 0.433333 1.077 0.3929 0.6								
AB	AB 5 1.367500 0.273500 0.680 0.6423 0.9								
ERROR B	30	12.072500	0.402417		·				

COMPLETE SPLIT-PLOT AOV Chickpeas cv. PBA HatTrick 1/11/2019, 6/11/2019 MOISTURE % AL								
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)		
Total	47	0.356899						
R	3	0.007454	0.002485	3.167	0.0387			
Α	1	0.263557	0.263557	136.582	0.0013	0.0		
ERROR A	З	0.005789	0.001930					
В	5	0.030248	0.006050	7.709	0.0001	0.0		
AB	AB 5 0.026309 0.005262 6.705 0.0003 0.0							
ERROR B	30	0.023541	0.000785					

COMPLETE SPLIT-PLOT AOV Chickpea cv. PBA HatTrick Mature Grain COUNT %								
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)		
Total	47	2090.619498						
R	3	180.174573	60.058191	2.588	0.0714			
Α	1	402.578752	402.578752	4.993	0.1115	8		
ERROR A	3	241.865756	80.621919					
В	5	285.218110	57.043622	2.458	0.0557	5		
AB 5 284.485410 56.897082 2.451 0.0562 7								
ERROR B	30	696.296896	23.209897					

COMPLETE SPLIT-PLOT AOV Chickpea cv. PBA HatTrick Green Grain COUNT % AA						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	47	260.011268				
R	3	19.493933	6.497978	2.905	0.0509	
Α	1	53.331072	53.331072	7.991	0.0664	2.37
ERROR A	3	20.021296	6.673765			
В	5	41.066651	8.213330	3.672	0.0104	1.53
AB	5	59.001680	11.800336	5.276	0.0014	2.16
ERROR B	30	67.096635	2.236555			

COMPLETE SPLIT-PLOT AOV							
	Chickpea cv. PBA HatTrick						
		Υ	ellow Grain				
		COI	UNT % AL				
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)	
Total	47	6.478131					
R	3	0.011637	0.003879	0.122	0.9462		
Α	1	4.470496	4.470496	121.913	0.0016	0.18	
ERROR A	3	0.110009	0.036670				
В	5	0.665331	0.133066	4.196	0.0052	0.18	
AB	5	0.269242	0.053848	1.698	0.1656	0.26	
ERROR B	30	0.951416	0.031714				

COMPLETE SPLIT-PLOT AOV Chickpea cv. PBA HatTrick Damaged Grain COUNT % AL						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	47	2.661568				
R	3	0.025434	0.008478	0.669	0.5777	
Α	1	2.091653	2.091653	132.328	0.0014	0.1
ERROR A	3	0.047420	0.015807			
В	5	0.081776	0.016355	1.291	0.2941	0.1
AB	5	0.035093	0.007019	0.554	0.7342	0.2
ERROR B	30	0.380193	0.012673			

COMPLETE SPLIT-PLOT AOV Chickpea cv. PBA HatTrick Shrivelled Grain COUNT % AA						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	47	182.649769				
R	3	31.546523	10.515508	3.923	0.0178	
Α	1	5.411089	5.411089	1.187	0.3557	2.0
ERROR A	3	13.679423	4.559808			
В	5	29.206670	5.841334	2.179	0.0830	1.7
AB	5	22.393415	4.478683	1.671	0.1721	2.4
ERROR B	30	80.412647	2.680422			

COMPLETE SPLIT-PLOT AOV Chickpea cv. PBA HatTrick Whole Pods COUNT % AL						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	47	3.949327				
R	3	0.444001	0.148000	3.405	0.0302	
Α	1	0.967598	0.967598	14.017	0.0333	0.2
ERROR A	3	0.207096	0.069032			
В	5	0.599530	0.119906	2.759	0.0364	0.2
AB	5	0.427097	0.085419	1.965	0.1128	0.3
ERROR B	30	1.304005	0.043467			

COMPLETE SPLIT-PLOT AOV Chickpea cv. PBA HatTrick Germination COUNT %						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	47	4422.979167				
R	3	239.229167	79.743056	1.225	0.3176	
Α	1	379.687500	379.687500	14.749	0.0311	5
ERROR A	3	77.229167	25.743056			
В	5	423.354167	84.670833	1.301	0.2898	8
AB	5	1351.187500	270.237500	4.153	0.0055	12
FRROR B	30	1952.291667	65.076389			

Trial ID: LB1917 Location: Pittsworth Trial Year: 2019

Assessment Type

DISCOLOUR = Phytotoxicity - % discoloration

LEAF DROP = Estimate of % of leaves dropped from plant

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.

ARM Action Codes

AL = Automatic log transformation of X+1

AA = Automatic arcsine square root % transformation

Conclusions:

This trial was designed to determine the impact of desiccant application timing. Three application timings were planned: at ~70%, 80% and 90% grain maturity. Timing 1 occurred at ~66% maturity, however within 5 days the crop had reached ~91% (timing 2) and 5 days later had reached ~98% maturity (Timing 3). A total fire ban was enforced shortly prior to the planned harvest of the 3rd application timing with no harvest conducted. Due to the application of Timing 3 on 98% mature grain and the lack of harvest and grain quality information, no data is presented from the Timing 3 application.

Harvest was conducted 7 days after each application. Shortly prior to each harvest, visual ratings of crop discolouration and leaf drop were conducted and a physical measure of stem drydown (stem snapping) was performed. Grain quality was evaluated within 24 hours of harvest.

Gramoxone 800 mL/ha provided the largest % discolouration at both application timings. It was significantly greater than all treatments other than Crucial 1000 mL/ha + Sharpen 34 g/ha + 1% Hasten at timing 1 and all treatments other than Crucial 1600 mL/ha or Crucial 1000 mL/ha + Sharpen 9 g/ha + 1% Hasten at timing 2.

Levels of leaf drop were less than 10% for all treatments with no improvement compared to the Untreated. No treatment provided any benefit in stem drydown compared to the Untreated at either application timing.

There was no significant impact on yield from any desiccant treatment or application timing with yields averaging 0.7 t/ha.

There was no significant impact from desiccant treatment on % grain protein with no interaction with application timing. Gramoxone 800 mL/ha and Crucial 1000 mL/ha + 1000

Visual grain assessment was also conducted. There was no significant impact on the % mature grain from any treatment or application timing with levels of \sim 90-95%. Levels of green immature grain were less than 1% for all treatments. At timing 1, all desiccant treatments other than Crucial 1000 mL/ha + Sharpen 34 g/ha + 1% Hasten recorded significantly less % green grain than the Untreated with no difference between treatments at timing 2. Levels of yellow immature grain overall were significantly higher from timing 1 (\sim 5% v 0.5%). Gramoxone 800 mL/ha recorded significantly less yellow grain than the Untreated with no impact from the other treatments.

Damaged seed levels were significantly higher at the timing 2 harvest (~3% v 1%) with no difference between any desiccant and the Untreated. There was no significant difference in shrivelled seed levels between any treatment and the Untreated with all levels below 1%. There were significantly more whole pods in the harvested samples from timing 1 (~3% v 1%) with Crucial 1600 mL/ha recording significantly higher levels than the Untreated and Gramoxone 800 mL/ha significantly lower.

Seed germination from the Crucial 1000 mL/ha + Sharpen 9 g/ha + Ally 5 g/ha + 1% Hasten treatment at timing 1 was significantly lower than the Untreated. There was no significant impact on germination from any other treatment compared to the Untreated at either timing.

In this situation, application of desiccant treatments at $^{\sim}66\%$ grain maturity had no significant effect on yield or visual grain assessment. Although this was an encouraging result, the rapid maturing of the crop meant timing 1 may only have been 3-4 days earlier than currently recommended. There was however a significant impact from Crucial 1000 mL/ha + Sharpen 9 g/ha + Ally 5 g/ha + 1% Hasten in reducing seed germination at the timing 1 application.

Crop Description				
Crop:	Chickpea			
Variety:	PBA HatTrick			
BBCH Scale:	GRDC			
Planting Date:	5/07/2019			
Planting Method:	Direct Drilled			
Planting Equipment:	Disc			
Row Spacing:	1m			
Harvested Width, Unit:	2m			
Harvested Length, Unit:	10.2m			

Trial ID: LB1917 Location: Pittsworth Trial Year: 2019

Application	n Description			
	Α	В		
Application Date:	25/10/2019	30/10/2019		
Application Start Time:	11:25 AM	10:45 AM		
Application Stop Time:	12:40 PM	11:30 AM		
Application Method:	SPI	RAY		
Application Timing:	PRE-HA	HARVEST		
Application Placement:	FOLIAR			
Air Temperature, Unit:	30.6 C	24.0 C		
% Relative Humidity:	32.3	50.5		
Wind Velocity, Unit:	ty, Unit: 3.9 km/h 7.1 km/			
Wind Direction:	NW			
Dew Presence (Y/N):	No			
Soil Moisture:	DRY			
% Cloud Cover:	0 100			
Next Moisture Occurred On:	8/11/2019	8/11/2019		

Crop Stage at Each Application						
	Α	A B				
Crop:		Chickpea				
Stage Scale Used:		GRDC				
Stage Majority, %:	18 R11	18 R11 62% 19 R12 75%				
Stage Minimum, %:	17 R10	17 R10 19% 18 R11 6%				
Stage Maximum, %:	19 R12	19 R12 19% 19 R12 759				

18 R11 = 50% of pods on plant mature 19 R12 = 90% of pods on plant mature

Application Equipment						
	Α	В				
Application Equipment:	Pol	aris				
Equipment Type:	ВО	ОМ				
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:	80 cm					
Ground Speed, Unit: 7.2 km/h						