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**Group A Compatibility - Awnless Barnyard Grass Knockdown 2015-16**

Trial ID: DK1509

Location: Moree

Trial Year: 2016

Investigator: Denielle Kilby

Application Code:	A	B
Application Date:	17/01/2016	25/01/2016
Weed Stage Average :	3 Tiller	8 Days after Application A
Weed Stage Range:	Stem Elongation – Early Flower	
Weed Density:	28/m <sup>2</sup>	

Trial designed and analysed as a Strip Plot

	In Simple Terms
Table of A Means:	Mean of 'first knock' performance with ALL 'second knock' treatments
Table of B Means:	Mean of 'second knock' performance with ALL 'first knock' treatments
Table of A x B Means:	'first knock' performance with EACH 'second knock' treatment

How to interpret?

Is there a significant difference for A x B Means ?

**If YES**

Table A x B Means analysis is the key information

**If NO (ie nsd)**

Table A or Table B Means analysis is the key information

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Trial Year: 2016

Pest Scientific Name					<i>Echinochloa colona</i>		
Pest Name					Awnless Barnyard Grass		
Situation					Fallow		
Assessment Date					1/02/2016	11/02/2016	11/02/2016
Assessment Type					BURNDOWN	REGROWING	COUNT
Assessment Unit					%	%	/m <sup>2</sup>
Treatment-Evaluation Interval					15 DAA	25 DAA	25 DAA
ARM Action Codes					AA	AL	AL
Trt No.	Treatment	Product Rate	Appl. Code	Spray Volume			
<b>TABLE OF A x B MEANS</b>							
<b>(First Knock Herbicide without Second Knock)</b>							
1	Verdict 520 Uptake	100ml/ha 0.5% v/v	A	70L/ha	75-	7cde	2.4d-g
2	Verdict 520 Starane Advanced Uptake	100ml/ha 500ml/ha 0.5% v/v	A	70L/ha	82-	9bcd	1.3fgh
3	Verdict 520 Amicide 625 Uptake	100ml/ha 1500ml/ha 0.5% v/v	A	70L/ha	39-	51a	5.5abc
4	Verdict 520 Fallowboss Tordon Uptake	100ml/ha 1000ml/ha 0.5% v/v	A	70L/ha	65-	22abc	2.8c-f
5	Verdict 520 Ally Uptake	100ml/ha 7g/ha 0.5% v/v	A	70L/ha	75-	28ab	4.4a-d
6	Verdict 520 Glyphosate CT Uptake	100ml/ha 2000ml/ha 0.5% v/v	A	70L/ha	68-	51a	6.1ab
7	Verdict 520 Garlon 600 Uptake	100ml/ha 160ml/ha 0.5% v/v	A	70L/ha	80-	23abc	3.5bcd
8	Verdict 520 Stuka Flexi Uptake	100ml/ha 315ml/ha 0.5% v/v	A	70L/ha	87-	2d-h	0.8hij
9	Status Uptake	400ml/ha 0.5% v/v	A	70L/ha	65-	28ab	3.3b-e
10	Status Uptake Liase	400ml/ha 0.5% v/v 2% v/v	A	70L/ha	53-	50a	3.9bcd
11	Status Starane Advanced Uptake Liase	400ml/ha 500ml/ha 0.5% v/v 2% v/v	A	70L/ha	61-	28ab	4.2a-d
12	Status Amicide 625 Uptake Liase	400ml/ha 1500ml/ha 0.5% v/v 2% v/v	A	70L/ha	48-	51a	5.5abc
13	Status Fallowboss Tordon Uptake Liase	400ml/ha 1000ml/ha 0.5% v/v 2% v/v	A	70L/ha	88-	6def	2.5d-g

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Trial Year: 2016

Pest Scientific Name Pest Name Situation Assessment Date Assessment Type Assessment Unit Treatment-Evaluation Interval ARM Action Codes					<i>Echinochloa colona</i> Awnless Barnyard Grass Fallow		
					1/02/2016 BURNDOWN % 15 DAA AA	11/02/2016 REGROWING % 25 DAA AL	11/02/2016 COUNT /m <sup>2</sup> 25 DAA AL
Trt No.	Treatment	Product Rate	Appln. Code	Spray Volume			
14	Status Ally Uptake Liase	400ml/ha 7g/ha 0.5% v/v 2% v/v	A	70L/ha	35-	53a	7.7a
15	Status Glyphosate CT Uptake Liase	400ml/ha 2000ml/ha 0.5% v/v 2% v/v	A	70L/ha	92-	1e-h	3.3bcd
16	Status Garlon 600 Uptake Liase	400ml/ha 160ml/ha 0.5% v/v 2% v/v	A	70L/ha	83-	2e-h	1.5e-h
<b>(First Knock Herbicide followed by Second Knock)</b>							
1a	Verdict 520 Uptake Nuquat	100ml/ha 0.5% v/v 2400ml/ha	A B	70L/ha 100L/ha	100-	0h	0.3ij
2a	Verdict 520 Starane Advanced Uptake Nuquat	100ml/ha 500ml/ha 0.5% v/v 2400ml/ha	A B	70L/ha 100L/ha	100-	0h	0.4hij
3a	Verdict 520 Amicide 625 Uptake Nuquat	100ml/ha 1500ml/ha 0.5% v/v 2400ml/ha	A B	70L/ha 100L/ha	94-	1e-h	0.6hij
4a	Verdict 520 Fallowboss Tordon Uptake Nuquat	100ml/ha 1000ml/ha 0.5% v/v 2400ml/ha	A B	70L/ha 100L/ha	98-	0h	0.1j
5a	Verdict 520 Ally Uptake Nuquat	100ml/ha 7g/ha 0.5% v/v 2400ml/ha	A B	70L/ha 100L/ha	98-	0gh	0.4hij
6a	Verdict 520 Glyphosate CT Uptake Nuquat	100ml/ha 2000ml/ha 0.5% v/v 2400ml/ha	A B	70L/ha 100L/ha	99-	0h	1.1ghi
7a	Verdict 520 Garlon 600 Uptake Nuquat	100ml/ha 160ml/ha 0.5% v/v 2400ml/ha	A B	70L/ha 100L/ha	99-	0h	0.7hij
8a	Verdict 520 Stuka Flexi Uptake Nuquat	100ml/ha 315ml/ha 0.5% v/v 2400ml/ha	A B	70L/ha 100L/ha	100-	0h	0.3ij

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Trial Year: 2016

Pest Scientific Name Pest Name Situation Assessment Date Assessment Type Assessment Unit Treatment-Evaluation Interval ARM Action Codes					<i>Echinochloa colona</i> Awnless Barnyard Grass Fallow		
					1/02/2016 BURNDOWN % 15 DAA AA	11/02/2016 REGROWING % 25 DAA AL	11/02/2016 COUNT /m <sup>2</sup> 25 DAA AL
Trt No.	Treatment	Product Rate	Appl. Code	Spray Volume			
9a	Status Uptake Nuquat	400ml/ha 0.5% v/v 2400ml/ha	A  B	70L/ha  100L/ha	97-	3d-g	1.3fgh
10a	Status Uptake Liase Nuquat	400ml/ha 0.5% v/v 2% v/v 2400ml/ha	A   B	70L/ha   100L/ha	95-	2d-h	1.1ghi
11a	Status Starane Advanced Uptake Liase Nuquat	400ml/ha 500ml/ha 0.5% v/v 2% v/v 2400ml/ha	A   B	70L/ha   100L/ha	98-	0h	0.9hij
12a	Status Amicide 625 Uptake Liase Nuquat	400ml/ha 1500ml/ha 0.5% v/v 2% v/v 2400ml/ha	A   B	70L/ha   100L/ha	98-	1fgh	0.8hij
13a	Status Fallowboss Tordon Uptake Liase Nuquat	400ml/ha 1000ml/ha 0.5% v/v 2% v/v 2400ml/ha	A   B	70L/ha   100L/ha	100-	0h	0.4hij
14a	Status Ally Uptake Liase Nuquat	400ml/ha 7g/ha 0.5% v/v 2% v/v 2400ml/ha	A   B	70L/ha   100L/ha	97-	1gh	0.4hij
15a	Status Glyphosate CT Uptake Liase Nuquat	400ml/ha 2000ml/ha 0.5% v/v 2% v/v 2400ml/ha	A   B	70L/ha   100L/ha	100-	0h	0.8hij
16a	Status Garlon 600 Uptake Liase Nuquat	400ml/ha 160ml/ha 0.5% v/v 2% v/v 2400ml/ha	A   B	70L/ha   100L/ha	99-	0gh	0.8hij
<b>TABLE OF B MEANS (Second Knock)</b>							
1	Untreated	-	-	-	70b	16a	3.3-
2	Nuquat	2400ml/ha	B	100L/ha	99a	0b	0.6-

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

## Group A Compatibility - Awnless Barnyard Grass 2015-16

Trial ID: DK1509

Location: Moree

Trial Year: 2016

**Assessment Type**

BURNDOWN = Burndown/brownout

REGROWING = % Weeds regrowing

**ARM Action Codes**

AA = Automatic arcsine square root % transformation

AL = Automatic log transformation of X+1

DAA = Days after Application

COMPLETE STRIP-BLOCK AOV						
<i>Echinochloa colona</i> - Awnless Barnyard Grass						
Fallow 1/02/2016						
BURNDOWN % 15 DAA AA						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	95	27184.700751				
R	2	30.314255	15.157128	0.273	0.7630	
A	15	5523.176830	368.211789	11.425	0.0001	6.693
RA	30	966.897043	32.229901			
B	1	17720.280212	17720.280212	1457.906	0.0007	3.062
RB	2	24.309225	12.154612			
AB	15	1253.536739	83.569116	1.505	0.1658	12.425
RAB	30	1666.186448	55.539548			

COMPLETE STRIP-BLOCK AOV						
<i>Echinochloa colona</i> - Awnless Barnyard Grass						
Fallow 11/02/2016						
REGROWING % 25 DAA AL						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	95	47.725275				
R	2	0.169371	0.084686	0.854	0.4359	
A	15	8.637630	0.575842	5.754	0.0001	0.373
RA	30	3.002428	0.100081			
B	1	28.585917	28.585917	244.643	0.0041	0.300
RB	2	0.233695	0.116847			
AB	15	4.120740	0.274716	2.770	0.0085	0.525
RAB	30	2.975493	0.099183			

COMPLETE STRIP-BLOCK AOV						
<i>Echinochloa colona</i> - Awnless Barnyard Grass						
Fallow 11/02/2016						
COUNT /m <sup>2</sup> 25 DAA AL						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	95	8.704578				
R	2	0.153616	0.076808	3.734	0.0356	
A	15	1.218066	0.081204	3.165	0.0035	0.19
RA	30	0.769729	0.025658			
B	1	4.298481	4.298481	8.899	0.0964	0.61
RB	2	0.966065	0.483033			
AB	15	0.681568	0.045438	2.209	0.0315	0.24
RAB	30	0.617052	0.020568			

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Trial Year: 2016

Application Description		
	A	B
Application Date:	17/01/2016	25/01/2016
Application Start Time:	7:20 AM	8:00 AM
Application Stop Time:	9:35 AM	8:20 AM
Application Method:	SPRAY	
Application Timing:	Early Post-Em	8 DAA
Air Temperature, Unit:	22.3 C	25.5 C
% Relative Humidity:	55.4	66.9
Wind Velocity, Unit:	3.9 km/h	11.5 km/h
Wind Direction:		ENE
Dew Presence (Y/N):	Yes	No
% Cloud Cover:	15	40
Time to Next Moisture, Unit:	0 DAY	

Application Equipment		
	A	B
Application Equipment:	Quad Bike	
Equipment Type:	BOOM	
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:	10.3 km/h	7.2 km/h
Spray Volume, Unit:	70 L/ha	100 L/ha