

Disclaimer:

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Knockdown Control of Summer Grasses in Fallow 2015-16

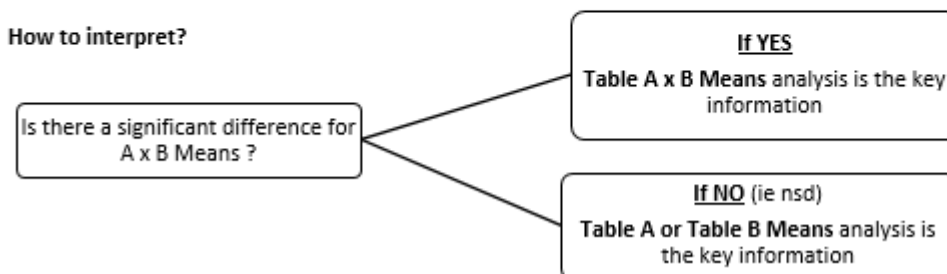
Trial ID: AM1546 Location: Mary's Mount Trial Year: 2016
 Investigator: Anthony Mitchell

Application Code:	A	B
Application Date:	3/02/2016	10/02/2016
Weed Stage:	90% - 7 tiller	90% - 9 tiller 7 Days after Appln. A
Weed Size:	10cm diameter	15cm diameter
Weed Density:	6m ²	6m ²

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?



Pest Scientific Name	<i>Urochloa panicoides</i>			
Pest Name	Liverseed Grass			
Crop Name	Fallow			
Description		Live Plants	Viable Heads	Viable Heads
Rating Date	17/02/2016	3/03/2016	3/03/2016	3/03/2016
Rating Type	BIO REDN	COUNT	COUNT	COUNT
Rating Unit	%	m ²	m ²	/Plant
Treatment-Evaluation Interval	14 DAA	29 DAA	29 DAA	29 DAA
ARM Action Codes			AL T1	AA
Trt No.	Treatment	Product Rate	Appln. Code	

TABLE OF A MEANS (First Knock)

1	Glyphosate CT	1000ml/ha	A	95bc	0.4h	0.0tg	0.0ti
2	Glyphosate CT	2000ml/ha	A	100a	0.0h	0.0tg	0.0ti
3	Glyphosate CT	4000ml/ha	A	100a	0.0h	0.0tg	0.0ti
4	Gp A S	375ml/ha	A	85e	8.0efg	1.7tef	0.2tgh
	Uptake	0.5% v/v	A				
	Liase	2% v/v	A				
5	Gp A S	500ml/ha	A	84e	8.0efg	0.4tfg	0.0thi
	Uptake	0.5% v/v	A				
	Liase	2% v/v	A				
6	Gp A V	100ml/ha	A	75f	11.1cde	5.5tcd	0.6tdef
	Uptake	0.5% v/v	A				
7	Gp A V	150ml/ha	A	84e	12.0cd	4.9tcd	0.6tef
	Uptake	0.5% v/v	A				
8	Gp A V	300ml/ha	A	93bcd	7.3fg	1.9te	0.2tfg
	Uptake	0.5% v/v	A				
9	Gp A E	250ml/ha	A	70g	18.2a	35.1ta	2.2tab
	Uptake	0.5% v/v	A				
10	Gp A E	500ml/ha	A	76f	17.3ab	32.3ta	2.4ta
	Uptake	0.5% v/v	A				
11	Nuquat	1600ml/ha	A	90d	9.6def	6.2tcd	0.8tde
12	Nuquat	2400ml/ha	A	95bc	5.8g	4.0tde	0.7tdef

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Pest Scientific Name Pest Name Crop Name Description Rating Date Rating Type Rating Unit Treatment-Evaluation Interval ARM Action Codes				<i>Urochloa panicoides</i> Liverseed Grass Fallow			
				17/02/2016 BIO REDN % 14 DAA	Live Plants 3/03/2016 COUNT m ² 29 DAA	Viable Heads 3/03/2016 COUNT m ² 29 DAA AL T1	Viable Heads 3/03/2016 COUNT /Plant 29 DAA AA
Trt No.	Treatment	Product Rate	Appln. Code				
13	Paratrooper	1600ml/ha	A	91cd	8.9d-g	9.3tbc	1.3tbcd
14	Balance	100g/ha	A	50h	14.0bc	14.5tb	1.6tabc
15	Nuquat	1600ml/ha	A	93bcd	9.3def	8.0tbcd	1.0tcde
15	Gp H B	50g/ha	A				
16	Nuquat	1600ml/ha	A	96ab	5.8g	5.2tcd	1.0tcde
16	Balance	100g/ha	A				
TABLE OF B MEANS (Second Knock)							
1	Untreated	-	-	72b	12.6a	9.7ta	1.1ta
2	Nuquat	2000ml/ha	B	100a	4.3b	1.3tb	0.2tb
TABLE OF A x B MEANS (First Knock Herbicide without Second Knock)							
1	Glyphosate CT	1000ml/ha	A	90bc	0.9lm	0.0tm	0.0tn
	Untreated	-	-				
2	Glyphosate CT	2000ml/ha	A	100a	0.0m	0.0tm	0.0tn
	Untreated	-	-				
3	Glyphosate CT	4000ml/ha	A	100a	0.0m	0.0tm	0.0tn
	Untreated	-	-				
4	Gp A S	375ml/ha	A	70e	14.2def	3.9tfg	0.3tjk
	Uptake	0.5% v/v	A				
	Liase	2% v/v	A				
	Untreated	-	-				
5	Gp A S	500ml/ha	A	68e	15.1de	0.9ti-m	0.1tk-n
	Uptake	0.5% v/v	A				
	Liase	2% v/v	A				
	Untreated	-	-				
6	Gp A V	100ml/ha	A	50f	15.6cde	8.5tef	0.7thij
	Uptake	0.5% v/v	A				
	Untreated	-	-				
7	Gp A V	150ml/ha	A	68e	14.7de	9.3tdef	0.9tghi
	Uptake	0.5% v/v	A				
	Untreated	-	-				
8	Gp A V	300ml/ha	A	85cd	12.0fg	5.2tfg	0.7thij
	Uptake	0.5% v/v	A				
	Untreated	-	-				
9	Gp A E	250ml/ha	A	40g	21.3a	62.4tab	3.1tabc
	Uptake	0.5% v/v	A				
	Untreated	-	-				
10	Gp A E	500ml/ha	A	53f	21.3a	74.0tab	3.7tab
	Uptake	0.5% v/v	A				
	Untreated	-	-				
11	Nuquat	1600ml/ha	A	80d	17.8bc	42.6tab	2.6tbcd
	Untreated	-	-				
12	Nuquat	2400ml/ha	A	90bc	10.7gh	14.4tde	1.7td-g
	Untreated	-	-				
13	Paratrooper	1600ml/ha	A	83d	13.3ef	35.6tabc	3.0tabc
	Untreated	-	-				
14	Balance	100g/ha	A	0h	19.1ab	75.2ta	4.1ta
	Untreated	-	-				

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Pest Scientific Name Pest Name Crop Name Description Rating Date Rating Type Rating Unit Treatment-Evaluation Interval ARM Action Codes				<i>Urochloa panicoides</i> Liverseed Grass Fallow			
				17/02/2016 BIO REDN % 14 DAA	Live Plants 3/03/2016 COUNT m ² 29 DAA	Viable Heads 3/03/2016 COUNT m ² 29 DAA AL T1	Viable Heads 3/03/2016 COUNT /Plant 29 DAA AA
Trt No.	Treatment	Product Rate	Appln. Code				
15	Nuquat Gp H B Untreated	1600ml/ha 50g/ha -	A A -	86bcd	16.0cd	34.8tbc	2.5tb-e
16	Nuquat Balance Untreated	1600ml/ha 100g/ha -	A A -	93b	10.2gh	15.8tde	2.0tc-f
(First Knock Herbicide followed by Second Knock)							
1a	Glyphosate CT Nuquat	1000ml/ha 2000ml/ha	A B	100a	0.0m	0.0tm	0.0tn
2a	Glyphosate CT Nuquat	2000ml/ha 2000ml/ha	A B	100a	0.0m	0.0tm	0.0tn
3a	Glyphosate CT	4000ml/ha 2000ml/ha	A B	100a	0.0m	0.0tm	0.0tn
4a	Gp A S Uptake Liase Nuquat	375ml/ha 0.5% v/v 2% v/v 2000ml/ha	A A A B	100a	1.8lm	0.4tklm	0.0tk-n
5a	Gp A S Uptake Liase Nuquat	500ml/ha 0.5% v/v 2% v/v 2000ml/ha	A A A B	100a	0.9lm	0.0tm	0.0tn
6a	Gp A V Uptake Nuquat	100ml/ha 0.5% v/v 2000ml/ha	A A B	100a	6.7ij	3.4tgh	0.5tij
7a	Gp A V Uptake Nuquat	150ml/ha 0.5% v/v 2000ml/ha	A A B	100a	9.3h	2.4tghi	0.3tjk
8a	Gp A V Uptake Nuquat	300ml/ha 0.5% v/v 2000ml/ha	A A B	100a	2.7kl	0.4tlm	0.0tlmn
9a	Gp A E Uptake Nuquat	250ml/ha 0.5% v/v 2000ml/ha	A A B	100a	15.1de	19.6tcd	1.5te-h
10a	Gp A E Uptake Nuquat	500ml/ha 0.5% v/v 2000ml/ha	A A B	100a	13.3ef	13.8tde	1.3tfgh
11a	Nuquat Nuquat	1600ml/ha 2000ml/ha	A B	100a	1.3lm	0.2tlm	0.0tmn
12a	Nuquat Nuquat	2400ml/ha 2000ml/ha	A B	100a	0.9lm	0.6tj-m	0.1tk-n
13a	Paratrooper Nuquat	1600ml/ha 2000ml/ha	A B	100a	4.4jk	1.9tg-k	0.3tjk
14a	Balance Nuquat	100g/ha 2000ml/ha	A B	100a	8.9hi	2.1tg-j	0.2tj-m
15a	Nuquat Gp H B Nuquat	1600ml/ha 50g/ha 2000ml/ha	A A B	100a	2.7kl	1.3th-l	0.2tj-m

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Pest Scientific Name				<i>Urochloa panicoides</i>			
Pest Name				Liverseed Grass			
Crop Name				Fallow			
Description				17/02/2016	Live Plants	Viable Heads	Viable Heads
Rating Date				3/03/2016	3/03/2016	3/03/2016	3/03/2016
Rating Type				BIO REDN	COUNT	COUNT	COUNT
Rating Unit				%	m ²	m ²	/Plant
Treatment-Evaluation Interval				14 DAA	29 DAA	29 DAA	29 DAA
ARM Action Codes					AL T1	AA	AA
Trt No.	Treatment	Product Rate	Appln. Code				
16a	Nuquat	1600ml/ha	A	100a	1.3lm	1.3th-l	0.3tjkl
	Balance	100g/ha	A				
	Nuquat	2000ml/ha	B				

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

Rating Type

BIO REDN = biomass reduction

ARM Action Codes

AL = Automatic log transformation of X+1

AA = Automatic arcsine square root % transformation

T1 = LOG ([5] + 1)

DAA = Days after Application

COMPLETE STRIP-BLOCK AOV For <i>Urochloa panicoides</i> - Liverseed Grass Fallow 17/02/2016 BIO REDN % 14 DAA						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	127	68282.617188				
R	3	128.710938	42.903646	1.994	0.1284	
A	15	20598.242188	1373.216146	63.827	0.0001	5
RA	45	968.164063	21.514757			
B	1	24892.382813	24892.382813	580.193	0.0002	4
RB	3	128.710938	42.903646			
AB	15	20598.242188	1373.216146	63.827	0.0001	7
RAB	45	968.164063	21.514757			

COMPLETE STRIP-BLOCK AOV <i>Urochloa panicoides</i> - Liverseed Grass Fallow Live Plants 3/03/2016 COUNT m ² 29 DAA						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	95	5394.203704				
R	2	46.259259	23.129630	6.795	0.0037	
A	15	2699.388889	179.959259	15.469	0.0001	3.5
RA	30	349.000000	11.633333			
B	1	1655.574074	1655.574074	643.173	0.0016	1.2
RB	2	5.148148	2.574074			
AB	15	536.722222	35.781481	10.513	0.0001	2.7
RAB	30	102.111111	3.403704			

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COMPLETE STRIP-BLOCK AOV For <i>Urochloa panicoides</i> - Liverseed Grass Fallow Viable Heads 3/03/2016 COUNT m ² 29 DAA AL T1						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	95	43.657729				
R	2	0.696794	0.348397	6.854	0.0035	
A	15	22.676046	1.511736	16.613	0.0001	0.3
RA	30	2.729893	0.090996			
B	1	10.494195	10.494195	151.412	0.0065	0.2
RB	2	0.138618	0.069309			
AB	15	5.397340	0.359823	7.079	0.0001	0.3
RAB	30	1.524843	0.050828			

COMPLETE STRIP-BLOCK AOV <i>Urochloa panicoides</i> - Liverseed Grass Fallow Viable Heads 3/03/2016 COUNT /Plant 29 DAA AA						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	95	1565.197718				
R	2	33.277457	16.638729	6.816	0.0036	
A	15	795.942310	53.062821	12.899	0.0001	2.1
RA	30	123.415044	4.113835			
B	1	329.576304	329.576304	176.350	0.0056	1.0
RB	2	3.737758	1.868879			
AB	15	206.011909	13.734127	5.626	0.0001	2.3
RAB	30	73.236936	2.441231			

Application Description		
	A	B
Application Date:	3/02/2016	10/02/2016
Application Start Time:	7:00 AM	10:30 AM
Application Stop Time:	10:00 AM	11:30 AM
Application Method:	SPRAY	
Application Timing:	Early Post-Em	7-10 DAA
Application Placement:	FOLIAR	FOLIAR
Air Temperature, Unit:	25 C	27 C
% Relative Humidity:	67	42
Wind Velocity, Unit:	3 km/h	
Wind Direction:	SW	
Soil Moisture:	Good	
% Cloud Cover:	100	0
Next Moisture Occurred On:	3/02/2016	
Time to Next Moisture, Unit:	8 hrs	0

Application Equipment		
	A	B
Application Equipment:	Quad Bike	
Operation Pressure, Unit:	300 kPa	
Nozzle Type:	AIXR	
Nozzle Size:	110015	
Nozzle Spacing, Unit:	50 cm	
Boom Length, Unit:	4 m	
Boom Height, Unit:	75 cm	
Ground Speed, Unit:	7.2 km/h	
Spray Volume, Unit:	100 L/ha	