

**Disclaimer:**

This document is based on the results from an individual trial and may contain experimental use patterns that are currently off-label. **This document does not provide any interpretation and should not be taken as an endorsement of any unregistered use pattern.** Professional advice should be sought for specific recommendations to ensure access to the most up to date information and knowledge. **Any product referred to in this document must be used strictly as directed, and in accordance with all label or permit instructions. Always consult the label prior to use.**

**Group A Compatibility – Feathertop Rhodes grass 2015-16**

Trial ID: LB1535      Location: St Ruth      Trial Year: 2015  
Investigator: Linda Bailey

Application Code:	A	B
Application Date:	11/02/2016	18/02/2016
Weed Stage Average :	Early budding	
Weed Stage Range:	4 Leaf to 4 Tillers	
Weed Density:	3 m <sup>2</sup>	

Trial designed and analysed as a Strip Plot

In Simple Terms	
1. Table of A Means:	Mean of 'first knock' performance with ALL 'second knock' treatments
2. Table of B Means:	Mean of 'second knock' performance with ALL 'first knock' treatments
3. 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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Pest Scientific Name Pest Name Situation Description Assessment Date Assessment Type Assessment Unit Treatment-Evaluation Interval ARM Action Codes					<i>Chloris virgata</i> Feathertop Rhodes grass Fallow			
					25/02/2016 BIO REDN % 14 DAA AA	11/03/2016 BIO REDN % 29 DAA AA	Heads 11/03/2016 COUNT /m <sup>2</sup> 29 DAA AL	Living Plants 11/03/2016 COUNT /m <sup>2</sup> 29 DAA AA
Trt No.	Treatment	Product Rate	Appln. 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	35-	51-	2.1-	1.2-
2	Verdict 520 Starane Advanced Uptake	100ml/ha 500ml/ha 0.5% v/v	A	70L/ha	21-	27-	9.3-	2.1-
3	Verdict 520 Amicide 625 Uptake	100ml/ha 1500ml/ha 0.5% v/v	A	70L/ha	7-	5-	12.9-	2.3-
4	Verdict 520 Fallowboss Tordon Uptake	100ml/ha 1000ml/ha 0.5% v/v	A	70L/ha	16-	23-	6.3-	2.0-
5	Verdict 520 Ally Uptake	100ml/ha 7g/ha 0.5% v/v	A	70L/ha	18-	27-	1.8-	0.8-
6	Verdict 520 Glyphosate CT Uptake	100ml/ha 2000ml/ha 0.5% v/v	A	70L/ha	40-	45-	6.2-	3.2-
7	Verdict 520 Garlon 600 Uptake	100ml/ha 160ml/ha 0.5% v/v	A	70L/ha	18-	21-	1.2-	0.7-
8	Verdict 520 Stuka Flexi Uptake	100ml/ha 315ml/ha 0.5% v/v	A	70L/ha	25-	39-	0.4-	0.9-
9	Elantra Xtreme Uptake	400ml/ha 0.5% v/v	A	70L/ha	47-	40-	2.2-	1.5-
10	Elantra Xtreme Starane Advanced Uptake	400ml/ha 500ml/ha 0.5% v/v	A	70L/ha	57-	54-	2.8-	1.6-
11	Elantra Xtreme Amicide 625 Uptake	400ml/ha 1500ml/ha 0.5% v/v	A	70L/ha	14-	13-	1.7-	1.1-
12	Elantra Xtreme Fallowboss Tordon Uptake	400ml/ha 1000ml/ha 0.5% v/v	A	70L/ha	27-	37-	1.7-	0.9-
13	Elantra Xtreme Ally Uptake	400ml/ha 7g/ha 0.5% v/v	A	70L/ha	36-	36-	4.8-	2.6-
14	Elantra Xtreme Glyphosate CT Uptake	400ml/ha 2000ml/ha 0.5% v/v	A	70L/ha	57-	67-	3.0-	2.9-
15	Elantra Xtreme Garlon 600 Uptake	400ml/ha 160ml/ha 0.5% v/v	A	70L/ha	43-	30-	2.8-	2.0-
16	Elantra Xtreme Stuka Flexi Uptake	400ml/ha 315ml/ha 0.5% v/v	A	70L/ha	64-	67-	1.3-	1.2-

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					25/02/2016 BIO REDN % 14 DAA AA	11/03/2016 BIO REDN % 29 DAA AA	Heads 11/03/2016 COUNT /m <sup>2</sup> 29 DAA AL	Living Plants 11/03/2016 COUNT /m <sup>2</sup> 29 DAA AA
Trt No.	Treatment	Product Rate	Appln. Code	Spray Volume				
<b>(First Knock Herbicide followed by Second Knock)</b>								
1a	Verdict 520 Uptake Nuquat	100ml/ha 0.5% v/v 2400ml/ha	A A B	70L/ha	95-	69-	1.1-	0.5-
2a	Verdict 520 Starane Advanced Uptake Nuquat	100ml/ha 500ml/ha 0.5% v/v 2400ml/ha	A A A B	70L/ha	97-	73-	2.7-	1.0-
3a	Verdict 520 Amicide 625 Uptake Nuquat	100ml/ha 1500ml/ha 0.5% v/v 2400ml/ha	A A A B	70L/ha	88-	57-	1.4-	0.2-
4a	Verdict 520 Fallowboss Tordon Uptake Nuquat	100ml/ha 1000ml/ha 0.5% v/v 2400ml/ha	A A A B	70L/ha	92-	48-	1.7-	0.5-
5a	Verdict 520 Ally Uptake Nuquat	100ml/ha 7g/ha 0.5% v/v 2400ml/ha	A A A B	70L/ha	94-	67-	0.6-	0.5-
6a	Verdict 520 Glyphosate CT Uptake Nuquat	100ml/ha 2000ml/ha 0.5% v/v 2400ml/ha	A A A B	70L/ha	98-	92-	1.1-	0.3-
7a	Verdict 520 Garlon 600 Uptake Nuquat	100ml/ha 160ml/ha 0.5% v/v 2400ml/ha	A A A B	70L/ha	94-	88-	1.6-	0.7-
8a	Verdict 520 Stuka Flexi Uptake Nuquat	100ml/ha 315ml/ha 0.5% v/v 2400ml/ha	A A A B	70L/ha	97-	83-	0.6-	0.5-
9a	Elantra Xtreme Uptake Nuquat	400ml/ha 0.5% v/v 2400ml/ha	A A B	70L/ha	97-	91-	0.4-	0.2-
10a	Elantra Xtreme Starane Advanced Uptake Nuquat	400ml/ha 500ml/ha 0.5% v/v 2400ml/ha	A A A B	70L/ha	98-	85-	0.9-	0.4-
11a	Elantra Xtreme Amicide 625 Uptake Nuquat	400ml/ha 1500ml/ha 0.5% v/v 2400ml/ha	A A A B	70L/ha	85-	38-	3.4-	1.9-
12a	Elantra Xtreme Fallowboss Tordon Uptake Nuquat	400ml/ha 1000ml/ha 0.5% v/v 2400ml/ha	A A A B	70L/ha	92-	68-	2.2-	0.7-

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					25/02/2016 BIO REDN % 14 DAA AA	11/03/2016 BIO REDN % 29 DAA AA	Heads 11/03/2016 COUNT /m <sup>2</sup> 29 DAA AL	Living Plants 11/03/2016 COUNT /m <sup>2</sup> 29 DAA AA
Trt No.	Treatment	Product Rate	Appln. Code	Spray Volume				
13a	Elantra Xtreme Ally Uptake Nuquat	400ml/ha 7g/ha 0.5% v/v 2400ml/ha	A A A B	70L/ha   100L/ha	98-	81-	0.6-	0.5-
14a	Elantra Xtreme Glyphosate CT Uptake Nuquat	400ml/ha 2000ml/ha 0.5% v/v 2400ml/ha	A A A B	70L/ha   100L/ha	100-	96-	0.1-	0.4-
15a	Elantra Xtreme Garlon 600 Uptake Nuquat	400ml/ha 160ml/ha 0.5% v/v 2400ml/ha	A A A B	70L/ha   100L/ha	98-	94-	0.4-	0.1-
16a	Elantra Xtreme Stuka Flexi Uptake Nuquat	400ml/ha 315ml/ha 0.5% v/v 2400ml/ha	A A A B	70L/ha   100L/ha	99-	99-	0.3-	0.0-
<b>TABLE OF A MEANS (First Knock)</b>								
1	Verdict 520 Uptake	100ml/ha 0.5% v/v	A	70L/ha	70bcd	60cd	1.6-	0.8-
2	Verdict 520 Starane Advanced Uptake	100ml/ha 500ml/ha 0.5% v/v	A	70L/ha	65c-f	50c-f	5.2-	1.5-
3	Verdict 520 Amicide 625 Uptake	100ml/ha 1500ml/ha 0.5% v/v	A	70L/ha	46f	26fg	4.7-	1.0-
4	Verdict 520 Fallowboss Tordon Uptake	100ml/ha 1000ml/ha 0.5% v/v	A	70L/ha	56def	35efg	3.4-	1.1-
5	Verdict 520 Ally Uptake	100ml/ha 7g/ha 0.5% v/v	A	70L/ha	59c-f	46d-g	1.1-	0.6-
6	Verdict 520 Glyphosate CT Uptake	100ml/ha 2000ml/ha 0.5% v/v	A	70L/ha	75abc	71abc	2.9-	1.4-
7	Verdict 520 Garlon 600 Uptake	100ml/ha 160ml/ha 0.5% v/v	A	70L/ha	59c-f	56cde	1.4-	0.7-
8	Verdict 520 Stuka Flexi Uptake	100ml/ha 315ml/ha 0.5% v/v	A	70L/ha	67b-e	62cd	0.5-	0.7-
9	Elantra Xtreme Uptake	400ml/ha 0.5% v/v	A	70L/ha	77abc	68a-d	1.1-	0.6-
10	Elantra Xtreme Starane Advanced Uptake	400ml/ha 500ml/ha 0.5% v/v	A	70L/ha	83ab	71abc	1.7-	0.9-
11	Elantra Xtreme Amicide 625 Uptake	400ml/ha 1500ml/ha 0.5% v/v	A	70L/ha	49ef	25g	2.5-	1.5-
12	Elantra Xtreme Fallowboss Tordon Uptake	400ml/ha 1000ml/ha 0.5% v/v	A	70L/ha	63c-f	53cde	1.9-	0.8-

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					25/02/2016 BIO REDN % 14 DAA AA	11/03/2016 BIO REDN % 29 DAA AA	Heads 11/03/2016 COUNT /m <sup>2</sup> 29 DAA AL	Living Plants 11/03/2016 COUNT /m <sup>2</sup> 29 DAA AA
Trt No.	Treatment	Product Rate	Appln. Code	Spray Volume				
<b>TABLE OF A MEANS (First Knock)</b>								
13	Elantra Xtreme Ally Uptake	400ml/ha 7g/ha 0.5% v/v	A	70L/ha	74a-d	59cde	2.0-	1.3-
14	Elantra Xtreme Glyphosate CT Uptake	400ml/ha 2000ml/ha 0.5% v/v	A	70L/ha	88a	84ab	1.1-	1.3-
15	Elantra Xtreme Garlon 600 Uptake	400ml/ha 160ml/ha 0.5% v/v	A	70L/ha	77abc	66bcd	1.3-	0.7-
16	Elantra Xtreme Stuka Flexi Uptake	400ml/ha 315ml/ha 0.5% v/v	A	70L/ha	87a	88a	0.8-	0.4-
<b>TABLE OF B MEANS (Second Knock)</b>								
1	Untreated	-	-	-	32b	35b	3.0-	1.6a
2	Nuquat	2400ml/ha	B	100L/ha	96a	79a	1.0-	0.4b

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.

**Assessment Type**

BIO REDN = biomass reduction

**ARM Action Codes**

AA = Automatic arcsine square root % transformation

AL = Automatic log transformation of X+1

DAA = Days after Application

<b>COMPLETE STRIP-BLOCK AOV</b> <i>Chloris virgata</i> - Feathertop Rhodes grass Fallow 25/02/2016 BIO REDN % 14 DAA AA						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	93	60557.134545				
R	2	697.991660	348.995830	2.992	0.0664	
A	15	5901.333867	393.422258	3.960	0.0007	12
RA	30	2980.495993	99.349866			
B	1	46579.707913	46579.707913	712.523	0.0014	7
RB	2	130.745768	65.372884			
AB	15	1001.228891	66.748593	0.572	0.8714	18
RAB	28	3265.630453	116.629659			

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COMPLETE STRIP-BLOCK AOV						
<i>Chloris virgata</i> - Feathertop Rhodes grass						
Fallow 11/03/2016						
BIO REDN % 29 DAA AA						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	90	41982.130763				
R	2	1608.717370	804.358685	3.695	0.0393	
A	15	11218.425002	747.895000	5.085	0.0001	14
RA	30	4412.620569	147.087352			
B	1	16858.574831	16858.574831	79.948	0.0123	13
RB	2	421.736274	210.868137			
AB	15	2019.384876	134.625658	0.618	0.8326	25
RAB	25	5442.671841	217.706874			

COMPLETE STRIP-BLOCK AOV						
<i>Chloris virgata</i> - Feathertop Rhodes Grass						
Fallow Heads 11/03/2016						
COUNT /m <sup>2</sup> 29 DAA AL						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	90	16.975909				
R	2	2.214443	1.107222	8.787	0.0013	
A	15	2.722153	0.181477	1.199	0.3243	0.5
RA	30	4.539331	0.151311			
B	1	1.998183	1.998183	6.497	0.1256	0.5
RB	2	0.615140	0.307570			
AB	15	1.736511	0.115767	0.919	0.5563	0.6
RAB	25	3.150148	0.126006			

COMPLETE STRIP-BLOCK AOV For						
<i>Chloris virgata</i> - Feathertop Rhodes grass						
Fallow Living Plants 11/03/2016						
COUNT /m <sup>2</sup> 29 DAA AA						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	90	1363.846202				
R	2	58.511593	29.255797	2.277	0.1235	
A	15	97.161092	6.477406	0.464	0.9407	4.4
RA	30	418.396253	13.946542			
B	1	279.162578	279.162578	23.368	0.0402	3.0
RB	2	23.893014	11.946507			
AB	15	165.497367	11.033158	0.859	0.6121	6.0
RAB	25	321.224306	12.848972			

Application Description		
	A	B
Application Date:	11/02/2016	18/02/2016
Application Start Time:	9:55 AM	11:30 AM
Application Stop Time:	12:10 PM	11:38 AM
Application Method:	SPRAY	
Application Timing:	Early Post-Em	7 DAA
Air Temperature, Unit:	28 C	31 C
% Relative Humidity:	46	43
Wind Velocity, Unit:	11 km/h	5 km/h
Wind Direction:	E	W
Dew Presence (Y/N):	No	
Soil Moisture:	DRY	
% Cloud Cover:	5	
Next Moisture Occurred On:	20/02/2016	

<b>Group A Compatibility – Feathertop Rhodes grass 2015-16</b>
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<b>Application Equipment</b>		
	A	B
<b>Application Equipment:</b>	Quad Bike	
<b>Equipment Type:</b>	BOOM	
<b>Operation Pressure, Unit:</b>	300 kPa	
<b>Nozzle Type:</b>	AIXR	
<b>Nozzle Size:</b>	110015	
<b>Nozzle Spacing, Unit:</b>	50 cm	
<b>Nozzles/Row:</b>	8	
<b>Boom Length, Unit:</b>	4 m	
<b>Boom Height, Unit:</b>	50 cm	
<b>Ground Speed, Unit:</b>	10.3 km/h	
<b>Spray Volume, Unit:</b>	70 L/ha	