

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 Summer Grasses 2015-16

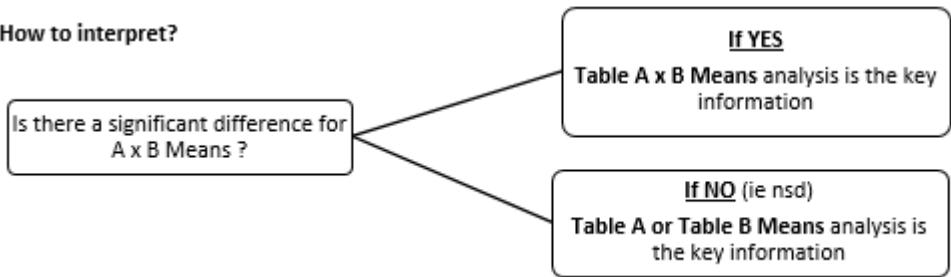
Trial ID: **AM1547** Location: **Mary's Mount** Trial Year: **2016**
 Investigator: **Anthony Mitchell**

| | | |
|------------------------------|-------------------------|--|
| Application Code: | A | B |
| Application Date: | 2/02/2016 | 10/02/2016 |
| Weed Stage Majority : | 90 % at 7 tiller | 90% at 8 tiller 8 Days after Appln. A |
| Weed Size: | 10 cm diameter | 15 cm diameter |
| Weed Density: | 6 m² | |

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 | | | |
| Situation | Fallow | | | |
| Description | | Live Plants | Viable Heads | Viable Heads |
| Assessment Date | 17/02/2016 | 3/03/2016 | 3/03/2016 | 3/03/2016 |
| Assessment Type | BIO REDN | COUNT | COUNT | COUNT |
| Assessment Unit | % | /m² | /m² | /Plant |
| Treatment-Evaluation Interval | 15 DAA | 30 DAA | 30 DAA | 30 DAA |
| ARM Action Codes | | T1 | T2 | |
| Trt No. | Treatment | Product Rate | Appln. Code | Spray Volume |

TABLE OF A MEANS (First Knock)

| | | | | | | | | |
|---|---------------------------------------|-----------------------------------|---|--------|------|-------|-------|--------|
| 1 | Gp A V Uptake | 150ml/ha 0.5% v/v | A | 70L/ha | 88b | 9gh | 11ef | 0.8ef |
| 2 | Gp A V Starane Advanced Uptake | 150ml/ha 500ml/ha 0.5% v/v | A | 70L/ha | 84b | 11fgh | 15def | 1.0def |
| 3 | Gp A V Amicide 625 Uptake | 150ml/ha 1500ml/ha 0.5% v/v | A | 70L/ha | 58f | 16ab | 46a | 2.8a |
| 4 | Gp A V Fallowboss Tordon Uptake | 150ml/ha 1000ml/ha 0.5% v/v | A | 70L/ha | 66e | 16ab | 39abc | 2.3abc |
| 5 | Gp A V Ally Uptake | 150ml/ha 7g/ha 0.5% v/v | A | 70L/ha | 80c | 9h | 11ef | 1.1de |
| 6 | Gp A V Glyphosate CT Uptake | 150ml/ha 2000ml/ha 0.5% v/v | A | 70L/ha | 100a | 0i | 0f | 0.0f |
| 7 | Gp A V Garlon 600 Uptake | 150ml/ha 160ml/ha 0.5% v/v | A | 70L/ha | 75d | 13c-f | 12ef | 0.7ef |

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| Pest Scientific Name Pest Name Situation Description Assessment Date Assessment Type Assessment Unit Treatment-Evaluation Interval ARM Action Codes | | | | | <i>Urochloa panicoides</i> Liverseed Grass Fallow | | | |
|---|--|--|-------------|------------------|---|--|---|--|
| | | | | | 17/02/2016 BIO REDN % 15 DAA | Live Plants 3/03/2016 COUNT /m ² 30 DAA T1 | Viable Heads 3/03/2016 COUNT /m ² 30 DAA T2 | Viable Heads 3/03/2016 COUNT /Plant 30 DAA |
| Trt No. | Treatment | Product Rate | Appln. Code | Spray Volume | | | | |
| 8 | Gp A V Stuka Flexi Uptake | 150ml/ha 315ml/ha 0.5% v/v | A | 70L/ha | 73d | 12e-h | 12ef | 1.0de |
| 9 | Gp A E Uptake | 500ml/ha 0.5% v/v | A | 70L/ha | 65e | 14b-e | 30bcd | 1.8a-d |
| 10 | Gp A E Starane Advanced Uptake | 500ml/ha 500ml/ha 0.5% v/v | A | 70L/ha | 65e | 15a-d | 43ab | 2.8a |
| 11 | Gp A E Amicide 625 Uptake | 500ml/ha 1500ml/ha 0.5% v/v | A | 70L/ha | 50g | 15a-d | 46a | 2.6ab |
| 12 | Gp A E Fallowboss Tordon Uptake | 500ml/ha 1000ml/ha 0.5% v/v | A | 70L/ha | 50g | 17a | 48a | 2.4ab |
| 13 | Gp A E Ally Uptake | 500ml/ha 7g/ha 0.5% v/v | A | 70L/ha | 66e | 15abc | 20de | 1.3cde |
| 14 | Gp A E Glyphosate CT Uptake | 500ml/ha 2000ml/ha 0.5% v/v | A | 70L/ha | 100a | 0i | 0f | 0.0f |
| 15 | Gp A E Garlon 600 Uptake | 500ml/ha 160ml/ha 0.5% v/v | A | 70L/ha | 68e | 16ab | 36abc | 2.3abc |
| 16 | Gp A E Stuka Flexi Uptake | 500ml/ha 315ml/ha 0.5% v/v | A | 70L/ha | 65e | 12d-g | 24cde | 1.6b-e |
| TABLE OF B MEANS (Second Knock) | | | | | | | | |
| 1 | Untreated | - | - | - | 44b | 16a | 41a | 2.2a |
| 2 | Nuquat | 2000ml/ha | B | 100L/ha | 100a | 7b | 8b | 0.8b |
| TABLE OF A x B MEANS (First Knock Herbicide without Second Knock) | | | | | | | | |
| 1 | Gp A V Uptake Untreated | 150ml/ha 0.5% v/v - | A - - | 70L/ha - - | 76b | 16gh | 20fgh | 1.4d-g |
| 2 | Gp A V Starane Advanced Uptake Untreated | 150ml/ha 500ml/ha 0.5% v/v - | A - - | 70L/ha - - | 69c | 16fgh | 28ef | 1.8c-f |
| 3 | Gp A V Amicide 625 Uptake Untreated | 150ml/ha 1500ml/ha 0.5% v/v - | A - - | 70L/ha - - | 15g | 20bc | 73ab | 3.7a |
| 4 | Gp A V Fallowboss Tordon Uptake Untreated | 150ml/ha 1000ml/ha 0.5% v/v - | A - - | 70L/ha - - | 33f | 19b-e | 62bc | 3.4ab |
| 5 | Gp A V Ally Uptake Untreated | 150ml/ha 7g/ha 0.5% v/v - | A - - | 70L/ha - - | 60d | 15hi | 18f-i | 1.6c-g |

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|---|--|--|-------------|------------------|---|--|---|--|
| | | | | | 17/02/2016 BIO REDN % 15 DAA | Live Plants 3/03/2016 COUNT /m ² 30 DAA T1 | Viable Heads 3/03/2016 COUNT /m ² 30 DAA T2 | Viable Heads 3/03/2016 COUNT /Plant 30 DAA |
| Trt No. | Treatment | Product Rate | Appln. Code | Spray Volume | | | | |
| 6 | Gp A V Glyphosate CT Uptake Untreated | 150ml/ha 2000ml/ha 0.5% v/v - | A - - | 70L/ha - - | 100a | 0p | 0j | 0.0j |
| 7 | Gp A V Garlon 600 Uptake Untreated | 150ml/ha 160ml/ha 0.5% v/v - | A - - | 70L/ha - - | 50e | 18d-g | 20f-i | 1.2e-i |
| 8 | Gp A V Stuka Flexi Uptake Untreated | 150ml/ha 315ml/ha 0.5% v/v - | A - - | 70L/ha - - | 45e | 18c-f | 20fgh | 1.2e-i |
| 9 | Gp A E Uptake Untreated | 500ml/ha 0.5% v/v - | A - - | 70L/ha - - | 30f | 21b | 51cd | 2.4bcd |
| 10 | Gp A E Starane Advanced Uptake Untreated | 500ml/ha 500ml/ha 0.5% v/v - | A - - | 70L/ha - - | 30f | 17efg | 68abc | 4.1a |
| 11 | Gp A E Amicide 625 Uptake Untreated | 500ml/ha 1500ml/ha 0.5% v/v - | A - - | 70L/ha - - | 0h | 20bcd | 79ab | 4.1a |
| 12 | Gp A E Fallowboss Tordon Uptake Untreated | 500ml/ha 1000ml/ha 0.5% v/v - | A - - | 70L/ha - - | 0h | 24a | 85a | 3.6a |
| 13 | Gp A E Ally Uptake Untreated | 500ml/ha 7g/ha 0.5% v/v - | A - - | 70L/ha - - | 33f | 18d-g | 22fg | 1.3e-h |
| 14 | Gp A E Glyphosate CT Uptake Untreated | 500ml/ha 2000ml/ha 0.5% v/v - | A - - | 70L/ha - - | 100a | 0p | 0j | 0.0j |
| 15 | Gp A E Garlon 600 Uptake Untreated | 500ml/ha 160ml/ha 0.5% v/v - | A - - | 70L/ha - - | 35f | 19b-f | 62bc | 3.4ab |
| 16 | Gp A E Stuka Flexi Uptake Untreated | 500ml/ha 315ml/ha 0.5% v/v - | A - - | 70L/ha - - | 30f | 17e-h | 41de | 2.5bc |

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|---|---|--|-------------|-------------------|---|--|---|--|
| | | | | | 17/02/2016 BIO REDN % 15 DAA | Live Plants 3/03/2016 COUNT /m ² 30 DAA T1 | Viable Heads 3/03/2016 COUNT /m ² 30 DAA T2 | Viable Heads 3/03/2016 COUNT /Plant 30 DAA |
| Trt No. | Treatment | Product Rate | Appln. Code | Spray Volume | | | | |
| (First Knock Herbicide followed by Second Knock) | | | | | | | | |
| 1a | Gp A V Uptake Nuquat | 150ml/ha 0.5% v/v 2000ml/ha | A B | 70L/ha 100L/ha | 100a | 3o | 2ij | 0.3hij |
| 2a | Gp A V Starane Advanced Uptake Nuquat | 150ml/ha 500ml/ha 0.5% v/v 2000ml/ha | A B | 70L/ha 100L/ha | 100a | 5no | 3hij | 0.2hij |
| 3a | Gp A V Amicide 625 Uptake Nuquat | 150ml/ha 1500ml/ha 0.5% v/v 2000ml/ha | A B | 70L/ha 100L/ha | 100a | 11jk | 19f-i | 1.8cde |
| 4a | Gp A V Fallowboss Tordon Uptake Nuquat | 150ml/ha 1000ml/ha 0.5% v/v 2000ml/ha | A B | 70L/ha 100L/ha | 100a | 13ij | 15f-j | 1.3e-i |
| 5a | Gp A V Ally Uptake Nuquat | 150ml/ha 7g/ha 0.5% v/v 2000ml/ha | A B | 70L/ha 100L/ha | 100a | 4o | 4hij | 0.6g-j |
| 6a | Gp A V Glyphosate CT Uptake Nuquat | 150ml/ha 2000ml/ha 0.5% v/v 2000ml/ha | A B | 70L/ha 100L/ha | 100a | 0p | 0j | 0.0j |
| 7a | Gp A V Garlon 600 Uptake Nuquat | 150ml/ha 160ml/ha 0.5% v/v 2000ml/ha | A B | 70L/ha 100L/ha | 100a | 8lm | 3hij | 0.2ij |
| 8a | Gp A V Stuka Flexi Uptake Nuquat | 150ml/ha 315ml/ha 0.5% v/v 2000ml/ha | A B | 70L/ha 100L/ha | 100a | 5mno | 4g-j | 0.8e-j |
| 9a | Gp A E Uptake Nuquat | 500ml/ha 0.5% v/v 2000ml/ha | A B | 70L/ha 100L/ha | 100a | 7lmn | 9g-j | 1.3e-i |
| 10a | Gp A E Starane Advanced Uptake Nuquat | 500ml/ha 500ml/ha 0.5% v/v 2000ml/ha | A B | 70L/ha 100L/ha | 100a | 12j | 17f-j | 1.5c-g |
| 11a | Gp A E Amicide 625 Uptake Nuquat | 500ml/ha 1500ml/ha 0.5% v/v 2000ml/ha | A B | 70L/ha 100L/ha | 100a | 9kl | 12f-j | 1.1e-j |
| 12a | Gp A E Fallowboss Tordon Uptake Nuquat | 500ml/ha 1000ml/ha 0.5% v/v 2000ml/ha | A B | 70L/ha 100L/ha | 100a | 11jk | 10f-j | 1.2e-i |
| 13a | Gp A E Ally Uptake Nuquat | 500ml/ha 7g/ha 0.5% v/v 2000ml/ha | A B | 70L/ha 100L/ha | 100a | 12ij | 17f-j | 1.4d-g |

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|---|---|--|-------------|-----------------------|---|--|---|--|
| | | | | | 17/02/2016 BIO REDN % 15 DAA | Live Plants 3/03/2016 COUNT /m ² 30 DAA T1 | Viable Heads 3/03/2016 COUNT /m ² 30 DAA T2 | Viable Heads 3/03/2016 COUNT /Plant 30 DAA |
| Trt No. | Treatment | Product Rate | Appln. Code | Spray Volume | | | | |
| 13a | Gp A E Ally Uptake Nuquat | 500ml/ha 7g/ha 0.5% v/v 2000ml/ha | A B | 70L/ha 100L/ha | 100a | 12ij | 17f-j | 1.4d-g |
| 14a | Gp A E Glyphosate CT Uptake Nuquat | 500ml/ha 2000ml/ha 0.5% v/v 2000ml/ha | A B | 70L/ha 100L/ha | 100a | 0p | 0j | 0.0j |
| 15a | Gp A E Garlon 600 Uptake Nuquat | 500ml/ha 160ml/ha 0.5% v/v 2000ml/ha | A B | 70L/ha 100L/ha | 100a | 12ij | 11f-j | 1.1e-i |
| 16a | Gp A E Stuka Flexi Uptake Nuquat | 500ml/ha 315ml/ha 0.5% v/v 2000ml/ha | A B | 70L/ha 100L/ha | 100a | 7lmn | 7g-j | 0.7f-j |

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

Assessment Type

BIO REDN = biomass reduction

ARM Action Codes

T1 = [2]/0.25

T2 = [4]/0.25

DAA = Days after Application

| COMPLETE STRIP-BLOCK AOV <i>Urochloa panicoides</i> - Liverseed Grass Fallow Biomass Reduction 17/02/2016 BIO REDN % 15 DAA | | | | | | |
|--|-----|----------------|---------------|----------|----------|-----------|
| Source | DF | Sum of Squares | Mean Square | F | Prob.(F) | LSD (.05) |
| Total | 127 | 157421.875000 | | | | |
| A | 15 | 27728.125000 | 1848.541667 | 100.449 | 0.0001 | 4 |
| B | 1 | 100128.125000 | 100128.125000 | 3314.586 | 0.0001 | 3 |
| AB | 15 | 27728.125000 | 1848.541667 | 100.449 | 0.0001 | 6 |

| COMPLETE STRIP-BLOCK AOV <i>Urochloa panicoides</i> - Liverseed Grass Fallow Live Plants 3/03/2016 COUNT m ² 30 DAA T1 | | | | | | |
|--|----|----------------|-------------|---------|----------|-----------|
| Source | DF | Sum of Squares | Mean Square | F | Prob.(F) | LSD (.05) |
| Total | 95 | 4962.370370 | | | | |
| A | 15 | 2411.259259 | 160.750617 | 20.770 | 0.0001 | 3 |
| B | 1 | 1779.629630 | 1779.629630 | 207.559 | 0.0048 | 2 |
| AB | 15 | 424.222222 | 28.281481 | 8.889 | 0.0001 | 3 |

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 Investigator: Anthony Mitchell

| COMPLETE STRIP-BLOCK AOV | | | | | | |
|---------------------------------------|----|----------------|--------------|---------|----------|-----------|
| Urochloa panicoides - Liverseed Grass | | | | | | |
| Fallow Viable Heads 3/03/2016 | | | | | | |
| COUNT m ² 30 DAA T2 | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F | Prob.(F) | LSD (.05) |
| Total | 95 | 76502.648148 | | | | |
| A | 15 | 24763.685185 | 1650.912346 | 7.047 | 0.0001 | 16 |
| B | 1 | 25047.574074 | 25047.574074 | 114.247 | 0.0086 | 11 |
| AB | 15 | 12714.500000 | 847.633333 | 5.530 | 0.0001 | 18 |

| COMPLETE STRIP-BLOCK AOV | | | | | | |
|---------------------------------------|----|----------------|-------------|---------|----------|-----------|
| Urochloa panicoides - Liverseed Grass | | | | | | |
| Fallow Viable Heads 3/03/2016 | | | | | | |
| COUNT /Plant 30 DAA | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F | Prob.(F) | LSD (.05) |
| Total | 95 | 204.204398 | | | | |
| A | 15 | 77.596991 | 5.173133 | 5.372 | 0.0001 | 1.0 |
| B | 1 | 46.667407 | 46.667407 | 216.173 | 0.0046 | 0.4 |
| AB | 15 | 21.695556 | 1.446370 | 2.596 | 0.0127 | 1.1 |

| Application Description | | |
|------------------------------|-----------|--------------------------|
| | A | B |
| Application Date: | 2/02/2016 | 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: | Post-Em | 7-10 Days after Appln. A |
| Air Temperature, Unit: | 25 C | 27 C |
| % Relative Humidity: | 50 | 42 |
| Wind Velocity, Unit: | 5 km/h | 3 km/h |
| Wind Direction: | SW | |
| Soil Moisture: | Good | |
| % Cloud Cover: | 30 | 0 |
| Next Moisture Occurred On: | 3/02/2016 | |
| Time to Next Moisture, Unit: | 30 hrs | 32 day |

| 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: | 10.3 km/h | 7.2 km/h |
| Spray Volume, Unit: | 70 L/ha | 100 L/ha |