

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.

Knockdown Control of 'Elongating' Common Sowthistle in Fallow

Trial ID: **AM1613** Location: **Mullaley** Trial Year: **2016**
 Investigator: **Anthony Mitchell**

Objectives:	To evaluate herbicides for the knockdown control of elongating Common Sowthistle	
Weed:	Common Sowthistle	
Application Code:	A	B
Application Date:	8/10/2106	15/10/2016
Application Water Volume:	70 L/ha	100 L/ha
Weed Stage Majority:	Early Flowering	7 Days after Application A
Weed Stage Range:	9 Node- 30% Flowers Open	
Weed Height:	60cm	
Weed Density:	2/m²	
Trial Reliability:	Good	
Keywords:	Common Sowthistle, Milkthistle, <i>Sonchus oleraceus</i>, knockdown, fallow	

Pest Scientific Name Pest Name				<i>Sonchus oleraceus</i> Common Sowthistle			
				Biomass Reduction 29/10/2016 BIOMRE %	Surviving Plants 29/10/2016 COUNT /m ²	Surviving Plants 8/11/2016 COUNT /m ²	Regrowing Plants 8/11/2016 COUNT /m ²
Description							
Assessment Date							
Assessment Type							
Assessment Unit							
Pest Stage Majority							
Treatment-Evaluation Interval							
ARM Action Codes							
Trt No.	Treatment	Product Rate	Appln. Code				
1	Glyphosate CT	1000ml/ha	A	18l	1.7a-f	3.3ab	3.3a
2	Glyphosate CT Nuquat	1000ml/ha 1600ml/ha	A B	43k	1.7a-f	2.8abc	2.0abc
3	Glyphosate CT	2000ml/ha	A	54jk	2.2a-d	3.4a	2.9a
4	Glyphosate CT Nuquat	2000ml/ha 1600ml/ha	A B	65h-k	1.3c-f	1.6a-f	0.9b-e
5	Glyphosate CT	4000ml/ha	A	65h-k	2.0a-e	2.1a-e	0.2efg
6	Glyphosate CT Nuquat	4000ml/ha 1600ml/ha	A B	98a-d	0.2g-k	0.8c-h	0.0fg
7	Amicide 625	1800ml/ha	A	60ijk	2.3a-d	2.7a-d	2.7a
8	Amicide 625 Nuquat	1800ml/ha 1600ml/ha	A B	82e-i	0.7e-i	0.7d-h	0.1efg
9	Amicide 625 Hasten	1800ml/ha 1% v/v	A A	59ijk	2.2a-d	1.9a-e	1.5a-d
10	Amicide 625 Hasten Nuquat	1800ml/ha 1% v/v 1600ml/ha	A A B	87d-h	0.8e-h	0.2ghi	0.0fg
11	Tordon 75-D	1000ml/ha	A	75f-j	3.1ab	3.2ab	1.7a-d
12	Tordon 75-D Nuquat	1000ml/ha 1600ml/ha	A B	91b-g	0.6f-j	0.1ghi	0.0g
13	Grazon Extra	600ml/ha	A	60ijk	3.4a	3.5a	2.4ab
14	Grazon Extra Nuquat	600ml/ha 1600ml/ha	A B	89c-g	0.7e-i	0.1ghi	0.1fg
15	Starane Advanced	600ml/ha	A	52jk	3.2ab	3.4a	3.4a
16	Starane Advanced Nuquat	600ml/ha 1600ml/ha	A B	82e-i	1.5b-f	0.7d-h	0.5def

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Pest Scientific Name Pest Name Description Assessment Date Assessment Type Assessment Unit Pest Stage Majority Treatment-Evaluation Interval ARM Action Codes				<i>Sonchus oleraceus</i> Common Sowthistle			
				Biomass Reduction 29/10/2016 BIOMRE %	Surviving Plants 29/10/2016 COUNT /m ²	Surviving Plants 8/11/2016 COUNT /m ²	Regrowing Plants 8/11/2016 COUNT /m ²
Trt No.	Treatment	Product Rate	Appln. Code	21 DAA AA	21 DAA AA T1	31 DAA AA T3	31 DAA AA T2
17	Gp H, C	1000ml/ha	A	89c-g	0.7e-i	1.1b-g	0.8b-e
18	Gp H, C Nuquat	1000ml/ha 1600ml/ha	A B	99abc	0.0jk	0.1ghi	0.1fg
19	Fallowboss Tordon	1000ml/ha	A	74g-j	2.8abc	2.5a-d	1.8a-d
20	Fallowboss Tordon Nuquat	1000ml/ha 1600ml/ha	A B	96a-e	0.8e-i	0.3f-i	0.0g
21	Experimental 1 Uptake	400ml/ha 0.5% v/v	A A	74g-j	2.2a-d	1.9a-e	1.8a-d
22	Experimental 1 Uptake Nuquat	400ml/ha 0.5% v/v 1600ml/ha	A A B	94a-f	0.8e-h	0.7d-i	0.1efg
23	Basta	2500ml/ha	A	91b-g	1.1d-g	0.8c-h	0.8cde
24	Basta Nuquat	2500ml/ha 1600ml/ha	A B	98a-d	0.1ijk	0.6e-i	0.2efg
25	Basta	3750ml/ha	A	97a-e	0.1h-k	0.2ghi	0.2efg
26	Basta Nuquat	3750ml/ha 1600ml/ha	A B	99a-d	0.1ijk	0.2ghi	0.1efg
27	Basta	5000ml/ha	A	100abc	0.1ijk	0.2ghi	0.0g
28	Basta Nuquat	5000ml/ha 1600ml/ha	A B	100a	0.0k	0.0i	0.0g
29	Basta Balance	2500ml/ha 100g/ha	A A	95a-e	0.3g-k	0.3f-i	0.3efg
30	Basta Balance Nuquat	2500ml/ha 100g/ha 1600ml/ha	A A B	100ab	0.0jk	0.0hi	0.0g
LSD=				15.8t	3.43t	4.77t	3.76t
Treatment Prob.(F)=				0.0001	0.0001	0.0001	0.0001

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.

Mean comparisons performed only when AOV Treatment P (F) is significant at mean comparison OSL.

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Assessment Type

BIOMRE = biomass reduction

Pest Stage Majority

63 = 30% of flowers open

65 = Full flowering: 50% of flowers open, first petals may be fallen

ARM Action Codes

AA = Automatic arcsine square root % transformation

T1 = Arcsine square root percent ([2])

T3 = Arcsine square root percent ([7])

T2 = Arcsine square root percent ([5])

DAA = Days after Application

Application Description		
	A	B
Application Date:	8/10/2016	15/10/2016
Application Start Time:	9:00 AM	5:00 PM
Application Stop Time:	12:00 PM	6:00 PM
Application Method:	SPRAY	
Application Timing:	LATE POST-EM	
Application Placement:	FOLIAR	
Air Temperature, Unit:	26 C	20 C
% Relative Humidity:	38	41
Wind Velocity, Unit:	10 km/h	8 km/h
Wind Direction:	NW	SE
% Cloud Cover:	0	
Next Moisture Occurred On:	16/10/2016	16/10/2016

Application Equipment		
	A	B
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:	60 cm	50 cm
Ground Speed, Unit:	10.3 km/h	7.2 km/h
Carrier:	WATER	
Spray Volume, Unit:	70 L/ha	100 L/ha