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<b>Knockdown Control of Rosette Staged Common Sowthistle in Fallow</b>
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<b>Trial ID:</b> AM1617	<b>Location:</b> Mullaley	<b>Trial Year:</b> 2016
	<b>Investigator:</b> Anthony Mitchell	

<b>Objectives:</b>	To evaluate herbicides for the knockdown control of rosette staged Common Sowthistle	
<b>Weed:</b>	Common Sowthistle	
<b>Application Code:</b>	A	B
<b>Application Date:</b>	9/10/2016	15/10/2016
<b>Application Water Volume:</b>	70 L/ha	100 L/ha
<b>Weed Stage Majority:</b>	4 leaf	6 Days after Application A
<b>Weed Stage Range:</b>	2-7 leaf	
<b>Weed Diameter:</b>	10 cm	
<b>Weed Density:</b>	5/m <sup>2</sup>	
<b>Trial Reliability:</b>	Good	
<b>Keywords:</b>	Common Sowthistle, Milkthistle, <i>Sonchus oleraceus</i> , knockdown, fallow	

Pest Scientific Name				<i>Sonchus oleraceus</i>	
Pest Name				Common Sowthistle	
Assessment Date				29/10/2016	7/11/2016
Assessment Type				COUNT	COUNT
Assessment Unit				/m <sup>2</sup>	/m <sup>2</sup>
Pest Stage Majority				16	16
Treatment-Evaluation Interval				20 DAA	29 DAA
ARM Action Codes				AL T1	AA T2
Trt No.	Treatment	Product Rate	Appln. Code		
1	Glyphosate CT	1000ml/ha	A	2.9b-e	1.6bc
2	Glyphosate CT	1000ml/ha	A	0.0f	0.0e
	Gramoxone	1600ml/ha	B		
3	Glyphosate CT	2000ml/ha	A	1.8de	0.6cd
4	Glyphosate CT	2000ml/ha	A	0.0f	0.0e
	Gramoxone	1600ml/ha	B		
5	Amicide 625	1800ml/ha	A	3.6bc	1.5bc
6	Amicide 625	1800ml/ha	A	0.0f	0.0e
	Gramoxone	1600ml/ha	B		
7	Amicide 625 Hasten	1800ml/ha 1% v/v	A A	3.3b-e	0.6cd
8	Amicide 625	1800ml/ha	A	0.0f	0.0e
	Hasten	1% v/v	A		
	Gramoxone	1600ml/ha	B		
9	Tordon 75-D	1000ml/ha	A	3.5bcd	0.2de
10	Tordon 75-D	1000ml/ha	A	0.0f	0.0e
	Gramoxone	1600ml/ha	B		
11	Grazon Extra	600ml/ha	A	2.4cde	0.2de
12	Grazon Extra	600ml/ha	A	0.0f	0.0e
	Gramoxone	1600ml/ha	B		
13	Starane Advanced	600ml/ha	A	3.2b-e	0.7cd
14	Starane Advanced	600ml/ha	A	0.0f	0.0e
	Gramoxone	1600ml/ha	B		

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Trial ID: AM1617      Location: Mullaley      Trial Year: 2016

Pest Scientific Name Pest Name Assessment Date Assessment Type Assessment Unit Pest Stage Majority Treatment-Evaluation Interval ARM Action Codes				<i>Sonchus oleraceus</i> Common Sowthistle	
				29/10/2016 COUNT /m <sup>2</sup> 16 20 DAA AL T1	7/11/2016 COUNT /m <sup>2</sup> 16 29 DAA AA T2
Trt No.	Treatment	Product Rate	Appln. Code		
15	Gp H,C	600ml/ha	A	0.0f	0.0e
16	Gp H,C Gramoxone	600ml/ha 1600ml/ha	A B	0.0f	0.0e
17	Fallowboss Tordon	1000ml/ha	A	1.8e	0.7cd
18	Fallowboss Tordon Gramoxone	1000ml/ha 1600ml/ha	A B	0.0f	0.0e
19	Sharpen Hasten	34g/ha 1% v/v	A A	0.0f	0.0e
20	Sharpen Hasten Gramoxone	34g/ha 1% v/v 1600ml/ha	A A B	0.0f	0.0e
21	Experimental 1 Uptake	400ml/ha 0.5% v/v	A A	2.3cde	0.8cd
22	Experimental 1 Uptake Gramoxone	400ml/ha 0.5% v/v 1600ml/ha	A A B	0.0f	0.0e
23	Basta	3750ml/ha	A	0.0f	0.0e
24	Basta Gramoxone	3750ml/ha 1600ml/ha	A B	0.0f	0.0e
25	Cadence Uptake	200g/ha 0.5% v/v	A A	4.7ab	2.6b
26	Cadence Uptake Gramoxone	200g/ha 0.5% v/v 1600ml/ha	A A B	0.0f	0.0e
27	Lontrel	115g/ha	A	7.6a	5.9a
28	Lontrel Gramoxone	115g/ha 1600ml/ha	A B	0.0f	0.0e
LSD=				0.20t	3.89t
Treatment Prob.(F)=				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.

### Pest Stage Majority

16 = 6 true leaves, leaf pairs or whorls unfolded

### ARM Action Codes

T1 = LOG ([2] + 1)

T2 = Arcsine square root percent ([4])

DAA = Days after Application

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Trial ID: AM1617

Location: Mullaley

Trial Year: 2016

Application Description		
	A	B
Application Date:	9/10/2016	15/10/2016
Application Start Time:	5:30 PM	6:30 PM
Application Stop Time:	7:30 PM	7:30 PM
Application Method:	SPRAY	
Application Timing:	EARLY POST-EM	
Application Placement:	FOLIAR	
Air Temperature, Unit:	28 C	19 C
% Relative Humidity:	50	41
Wind Velocity, Unit:	5 km/h	
Wind Direction:	E	
% Cloud Cover:	30	0
Next Moisture Occurred On:	18/10/2016	18/10/2016

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:	4m	
Boom Height, Unit:	50 cm	
Ground Speed, Unit:	10.3 km/h	7.2 km/h
Carrier:	WATER	
Spray Volume, Unit:	70 L/ha	100 L/ha