

**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.**

## Spray Drift Reduction Effect on Efficacy

Trial ID: **DK1726**                      Location: **Millie**                      Trial Year: **2017**  
 Investigator: **Denielle Kilby**

<b>Objective:</b>	To determine the effects on efficacy of adopting drift reduction agents and ultra coarse droplets				
<b>Application Code:</b>	A	B	C	D	E
<b>Application Date:</b>	8/11/2017				
<b>Nozzle:</b>	AIXR11002	TTI110015	TTI11002	TTI11003	TTI110015
<b>Application Timing:</b>	Post-Emergent Knockdown				
<b>Weed Stage:</b>	Beginning of flowering				
<b>Weed Population:</b>	0.5/m <sup>2</sup>				
<b>Keywords:</b>	Common Sowthistle, knockdown, fallow				
NB: Very low weeds numbers and mistake with herbicide rate for treatments 10-15. Data unreliable					

Pest Scientific Name					<i>Sonchus oleraceus</i>	<i>Hordeum vulgare</i>	<i>Sonchus oleraceus</i>	<i>Hordeum vulgare</i>
Pest Name					Common Sowthistle	Volunteer Barley	Common Sowthistle	Volunteer Barley
Assessment Date					23/11/2017	23/11/2017	6/12/2017	6/12/2017
Assessment Type					BURNDOWN	BURNDOWN	BURNDOWN	BURNDOWN
Assessment Unit					%	%	%	%
Treatment-Evaluation Interval					15 DAA	15 DAA	28 DAA	28 DAA
ARM Action Codes						AL		
Trt No.	Treatment	Product Rate	Appln. Code	Spray Volume				
1	Weedmaster DST Amicide Advance 700 Hasten	1400ml/ha 1100ml/ha 1% v/v	A	70L/ha	37-	48ab	53-	90-
2	Weedmaster DST Amicide Advance 700 Hasten LI-700	1400ml/ha 1100ml/ha 1% v/v 0.5% v/v	A	70L/ha	30-	34b-e	40-	90-
3	Weedmaster DST Amicide Advance 700 DeadSure	1400ml/ha 1100ml/ha 0.375% v/v	A	70L/ha	32-	24e	58-	90-
4	Weedmaster DST Amicide Advance 700 Hasten	1400ml/ha 1100ml/ha 1% v/v	B	70L/ha	35-	29cde	35-	92-
5	Weedmaster DST Amicide Advance 700 Hasten LI-700	1400ml/ha 1100ml/ha 1% v/v 0.5% v/v	B	70L/ha	30-	38a-e	47-	90-
6	Weedmaster DST Amicide Advance 700 DeadSure	1400ml/ha 1100ml/ha 0.375% v/v	B	70L/ha	35-	43a-d	32-	90-
7	Weedmaster DST Amicide Advance 700 Hasten	1400ml/ha 1100ml/ha 1% v/v	C	70L/ha	28-	32b-e	37-	90-
8	Weedmaster DST Amicide Advance 700 Hasten LI-700	1400ml/ha 1100ml/ha 1% v/v 0.5% v/v	C	70L/ha	28-	29cde	40-	87-
9	Weedmaster DST Amicide Advance 700 DeadSure	1400ml/ha 1100ml/ha 0.375% v/v	C	70L/ha	32-	28de	27-	90-

## Spray Drift Reduction Effect on Efficacy

Trial ID: DK1726

Location: Millie

Trial Year: 2017

Pest Scientific Name					<i>Sonchus oleraceus</i>	<i>Hordeum sp.</i>	<i>Sonchus oleraceus</i>	<i>Hordeum sp.</i>
Pest Name					Common Sowthistle	Volunteer Barley	Common Sowthistle	Volunteer Barley
Assessment Date					23/11/2017	23/11/2017	6/12/2017	6/12/2017
Assessment Type					BURNDOWN	BURNDOWN	BURNDOWN	BURNDOWN
Assessment Unit					%	%	%	%
Treatment-Evaluation Interval					15 DAA	15 DAA	28 DAA	28 DAA
ARM Action Codes						AL		
Trt No.	Treatment	Product Rate	Appln. Code	Spray Volume				
10	Weedmaster DST Amicide Advance 700 Hasten	2100ml/ha 1650ml/ha 1% v/v	D	105L/ha	32-	38a-e	50-	90-
11	Weedmaster DST Amicide Advance 700 Hasten LI-700	2100ml/ha 1650ml/ha 1% v/v 0.5% v/v	D	105L/ha	37-	59a	60-	90-
12	Weedmaster DST Amicide Advance 700 DeadSure	2100ml/ha 1650ml/ha 0.375% v/v	D	105L/ha	33-	25e	48-	90-
13	Weedmaster DST Amicide Advance 700 Hasten	2100ml/ha 1650ml/ha 1% v/v	E	105L/ha	33-	44a-d	55-	90-
14	Weedmaster DST Amicide Advance 700 Hasten LI-700	2100ml/ha 1650ml/ha 1% v/v 0.5% v/v	E	105L/ha	32-	48ab	53-	90-
15	Weedmaster DST Amicide Advance 700 DeadSure	2100ml/ha 1650ml/ha 0.375% v/v	E	105L/ha	35-	46abc	48-	90-
LSD P=					nsd	0.2t	nsd	nsd
Treatment Prob.(F)=					0.4519	0.0124	0.1349	0.4079

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.

nsd = No significant difference

## Spray Drift Reduction Effect on Efficacy

Trial ID: DK1726

Location: Millie

Trial Year: 2017

Pest Scientific Name					<i>Sonchus oleraceus</i>
Pest Name					Common Sowthistle
Assessment Date					28/12/2017
Assessment Type					VISUAL CONTROL
Assessment Unit					%
Pest Stage Majority					67
Treatment-Evaluation Interval					50 DAA
ARM Action Codes					AA
Trt No.	Treatment	Product Rate	Appln. Code	Spray Volume	
1	Weedmaster DST Amicide Advance 700 Hasten	1400ml/ha 1100ml/ha 1% v/v	A	70L/ha	10-
2	Weedmaster DST Amicide Advance 700 Hasten LI-700	1400ml/ha 1100ml/ha 1% v/v 0.5% v/v	A	70L/ha	4-
3	Weedmaster DST Amicide Advance 700 DeadSure	1400ml/ha 1100ml/ha 0.375% v/v	A	70L/ha	1-
4	Weedmaster DST Amicide Advance 700 Hasten	1400ml/ha 1100ml/ha 1% v/v	B	70L/ha	0-
5	Weedmaster DST Amicide Advance 700 Hasten LI-700	1400ml/ha 1100ml/ha 1% v/v 0.5% v/v	B	70L/ha	18-
6	Weedmaster DST Amicide Advance 700 DeadSure	1400ml/ha 1100ml/ha 0.375% v/v	B	70L/ha	2-
7	Weedmaster DST Amicide Advance 700 Hasten	1400ml/ha 1100ml/ha 1% v/v	C	70L/ha	7-
8	Weedmaster DST Amicide Advance 700 Hasten LI-700	1400ml/ha 1100ml/ha 1% v/v 0.5% v/v	C	70L/ha	2-
9	Weedmaster DST Amicide Advance 700 DeadSure	1400ml/ha 1100ml/ha 0.375% v/v	C	70L/ha	0-
10	Weedmaster DST Amicide Advance 700 Hasten	2100ml/ha 1650ml/ha 1% v/v	D	105L/ha	15-
11	Weedmaster DST Amicide Advance 700 Hasten LI-700	2100ml/ha 1650ml/ha 1% v/v 0.5% v/v	D	105L/ha	19-
12	Weedmaster DST Amicide Advance 700 DeadSure	2100ml/ha 1650ml/ha 0.375% v/v	D	105L/ha	0-

## Spray Drift Reduction Effect on Efficacy

Trial ID: DK1726

Location:

Millie

Trial Year: 2017

Pest Scientific Name					<i>Sonchus oleraceus</i>
Pest Name					Common Sowthistle
Assessment Date					28/12/2017
Assessment Type					VISUAL CONTROL
Assessment Unit					%
Pest Stage Majority					67
Treatment-Evaluation Interval					50 DAA
ARM Action Codes					AA
Trt No.	Treatment	Product Rate	Appln. Code	Spray Volume	
13	Weedmaster DST Amicide Advance 700 Hasten	2100ml/ha 1650ml/ha 1% v/v	E	105L/ha	15-
14	Weedmaster DST Amicide Advance 700 Hasten LI-700	2100ml/ha 1650ml/ha 1% v/v 0.5% v/v	E	105L/ha	1-
15	Weedmaster DST Amicide Advance 700 DeadSure	2100ml/ha 1650ml/ha 0.375% v/v	E	105L/ha	8-
LSD P= Treatment Prob.(F)=					nsd 0.3516

Assessment Type

BURNDOWN = Burndown/brown out

Pest Stage Majority

67 = Flowering finishing: majority of petals fallen or dry

ARM Action Codes

AL = Automatic log transformation of X+1

AA = Automatic arcsine square root % transformation

DAA = Days after Application

Application Description					
	A	B	C	D	E
Application Date:	8/11/2017	8/11/2017	8/11/2017	8/11/2017	8/11/2017
Application Start Time:	8:00 AM	8:00 AM	8:00 AM	8:00 AM	8:00 AM
Application Stop Time:	9:45 AM	9:45 AM	9:45 AM	9:45 AM	9:45 AM
Application Timing:	Late Post-Emergent Weeds				
Application Placement:	FOLIAR	FOLIAR	FOLIAR	FOLIAR	FOLIAR
Air Temperature, Unit:	25 C	25 C	25 C	25 C	25 C
% Relative Humidity:	44	44	44	44	44
Wind Velocity, Unit:	4.1 km/h	4.1 km/h	4.1 km/h	4.1 km/h	4.1 km/h
Dew Presence (Y/N):	No	No	No	No	No
% Cloud Cover:	0	0	0	0	0

Pest Stage at Each Application					
	A	B	C	D	E
Pest Type:	<i>Sonchus oleraceus</i> Common Sowthistle				
Pest Stage:	Beginning Flowering. 10% Flowers Open				
Density, Unit:	0.5 / m <sup>2</sup>				

## Spray Drift Reduction Effect on Efficacy

Trial ID: DK1726

Location: Millie

Trial Year: 2017

Application Equipment					
	A	B	C	D	E
Operation Pressure, Unit:	300 kPa				
Nozzle Type:	AIXR	TTI	TTI	TTI	TTI
Nozzle Size:	11002	110015	11002	11003	110015
Nozzle Spacing, Unit:	50 cm				
Boom Length, Unit:	4 m				
Boom Height, Unit:	50 cm				
Ground Speed, Unit:	13.7 km/h	10.3 km/h	13.7 km/h	13.7 km/h	6.9 km/h
Carrier:	WATER				
Spray Volume, Unit:	70 L/ha	70 L/ha	70 L/ha	105 L/ha	105 L/ha