

Disclaimer:

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Knockdown Control of Common Sowthistle 2015-16

Trial ID: DK1511 Location: Bellata Trial Year: 2016
Investigator: Denielle Kilby

Application Code:	A	B
Application Date:	1/06/2016	15/06/2016
Weed Stage Average :	5 Leaf	
Weed Stage Range:	4 Leaf - Early Stem Elongation	
Weed Density:	3.5/m ²	

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?

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 Assessment Date Assessment Type Assessment Unit Treatment-Evaluation Interval ARM Action Codes					<i>Sonchus oleraceus</i> Common Sowthistle Fallow		
					15/06/2016 CONTROL % 14 DAA AA	30/06/2016 CONTROL % 29 DAA AA	14/07/2016 REGROWING /m ² 43 DAA AA
Trt No.	Treatment	Product Rate	Appln. Code	Spray Volume			
TABLE OF A x B MEANS							
(First Knock Herbicide without Second Knock)							
1	Glyphosate CT	1000ml/ha	A	70L/ha	53g	59f-j	0.8c
2	Glyphosate CT	2000ml/ha	A	70L/ha	89b	62f-i	0.2de
3	Glyphosate CT	4000ml/ha	A	70L/ha	88c	86cde	0.1def
4	Express	25g/ha	A	70L/ha	5o	14l	3.4a
5	Amicide Advance 700	1100ml/ha	A	70L/ha	14m	43hij	0.9c
6	Amicide Advance 700 Hasten	1100ml/ha 1% v/v	A	70L/ha 70L/ha	23k	54g-j	0.3d
7	Gp I T	1000ml/ha	A	70L/ha	18l	49hij	0.1de
8	Grazon Extra	600ml/ha	A	70L/ha	37i	75d-g	0.0f
9	Starane Advanced	600ml/ha	A	70L/ha	12n	38ijk	1.0bc
10	Gp I B S	14g/ha	A	70L/ha	5o	20kl	1.7b
11	Gp H C V	600ml/ha	A	70L/ha	52h	45hij	1.0bc
12	Gp H C V	1000ml/ha	A	70L/ha	70f	78def	0.3d
13	Gp I FT	1000ml/ha	A	70L/ha	24j	56f-j	0.1def
14	Sharpen Hasten	34g/ha 1% v/v	A	70L/ha 70L/ha	100a	100a	0.0f
15	Balance Nuquat	100g/ha 2000ml/ha	A	70L/ha 70L/ha	75e	66e-h	0.1def
16	Nuquat	2000ml/ha	A	70L/ha	86d	35jkl	0.3d
(First Knock Herbicide followed by Second Knock)							
1a	Glyphosate CT Nuquat	1000ml/ha 2000ml/ha	A B	70L/ha 100L/ha	53g	90bcd	0.1def
2a	Glyphosate CT Nuquat	2000ml/ha 2000ml/ha	A B	70L/ha 100L/ha	89b	100a	0.1def
3a	Glyphosate CT Nuquat	4000ml/ha 2000ml/ha	A B	70L/ha 100L/ha	88c	97abc	0.1def
4a	Express Nuquat	25g/ha 2000ml/ha	A B	70L/ha 100L/ha	5o	75d-g	0.1de
5a	Amicide Advance 700 Nuquat	1100ml/ha 2000ml/ha	A B	70L/ha 100L/ha	14m	98abc	0.0ef
6a	Amicide Advance 700 Hasten Nuquat	1100ml/ha 1% v/v 2000ml/ha	A A B	70L/ha 70L/ha 100L/ha	23k	99ab	0.0f
7a	Gp I T Nuquat	1000ml/ha 2000ml/ha	A B	70L/ha 100L/ha	18l	100a	0.0f
8a	Grazon Extra Nuquat	600ml/ha 2000ml/ha	A B	70L/ha 100L/ha	37i	98abc	0.0f
9a	Starane Advanced Nuquat	600ml/ha 2000ml/ha	A B	70L/ha 100L/ha	12n	98abc	0.0f
10a	Gp I B S Nuquat	14g/ha 2000ml/ha	A B	70L/ha 100L/ha	5o	91bcd	0.1de
11a	Gp H C V Nuquat	600ml/ha 2000ml/ha	A B	70L/ha 100L/ha	52h	99ab	0.0f

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					15/06/2016 CONTROL % 14 DAA AA	30/06/2016 CONTROL % 29 DAA AA	14/07/2016 REGROWING /m ² 43 DAA AA
Trt No.	Treatment	Product Rate	Appln. Code	Spray Volume			
12a	Gp H C V Nuquat	1000ml/ha 2000ml/ha	A B	70L/ha 100L/ha	70f	100a	0.0ef
13a	Gp I FT Nuquat	1000ml/ha 2000ml/ha	A B	70L/ha 100L/ha	24j	100a	0.0f
14a	Sharpen Hasten Nuquat	34g/ha 1% v/v 2000ml/ha	A A B	70L/ha 70L/ha 100L/ha	100a	100a	0.0f
15a	Balance Nuquat Nuquat	100g/ha 2000ml/ha 2000ml/ha	A A B	70L/ha 70L/ha 100L/ha	75e	100a	0.0f
16a	Nuquat Nuquat	2000ml/ha 2000ml/ha	A B	70L/ha 100L/ha	86d	100a	0.0f
TABLE OF B MEANS (Second Knock)							
1	Untreated	-	-	-	47-	57b	0.4a
2	Nuquat	2000ml/ha	B	100L/ha	47-	98a	0.0b

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

Assessment Type

CONTROL = Control / burndown or knockdown

REGROWING = Number of weeds re-growing

ARM Action Codes

AA = Automatic arcsine square root % transformation

DAA = Days after Application

COMPLETE STRIP-BLOCK AOV
Sonchus oleraceus - Sowthistle
Fallow 15/06/2016
CONTROL % 14 DAA AA

Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	127	72881.476131				
R	3	223.418612	74.472871	0.000	1.0000	
A	15	66443.063492	4429.537566	32.072	0.0001	11.9
RA	45	6214.994027	138.110978			
B	1	0.000000	0.000000	0.000	1.0000	0.0
RB	3	0.000000	0.000000			
AB	15	0.000000	0.000000	0.000	0.0000	0.0
RAB	45	0.000000	0.000000			

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Location: Bellata

Trial Year: 2016

COMPLETE STRIP-BLOCK AOV						
<i>Sonchus oleraceus</i> - Sowthistle						
Fallow 30/06/2016						
CONTROL % 29 DAA AA						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	127	66838.997217				
R	3	298.899696	99.633232	1.001	0.4012	
A	15	14729.711104	981.980740	8.552	0.0001	10.8
RA	45	5167.199833	114.826663			
B	1	36018.776044	36018.776044	190.305	0.0008	7.7
RB	3	567.805329	189.268443			
AB	15	5577.477412	371.831827	3.736	0.0003	14.3
RAB	45	4479.127799	99.536173			

COMPLETE STRIP-BLOCK AOV						
<i>Sonchus oleraceus</i> - Sowthistle						
Fallow 14/07/2016						
REGROWING /m ² 43 DAA AA						
Source	DF	Sum of Squares	Mean Square	F	Prob.(F)	LSD (.05)
Total	127	1057.064460				
R	3	9.556587	3.185529	1.636	0.1943	
A	15	357.492830	23.832855	7.983	0.0001	1.7
RA	45	134.342757	2.985395			
B	1	283.598067	283.598067	460.906	0.0002	0.4
RB	3	1.845917	0.615306			
AB	15	182.615605	12.174374	6.253	0.0001	2.0
RAB	45	87.612697	1.946949			

Application Description		
	A	B
Application Date:	1/06/2016	15/06/2016
Application Start Time:	9:45 AM	1:00 PM
Application Stop Time:	11:30 AM	1:20 PM
Application Method:	SPRAY	
Application Timing:	Late Post-Em	14 DAA
Air Temperature, Unit:	20 C	22 C
% Relative Humidity:	50	44.5
Wind Velocity, Unit:	10.8 km/h	5.4 km/h
Wind Direction:	NNE	
Dew Presence (Y/N):	No	
Soil Moisture:	GOOD	
% Cloud Cover:	25	5
Next Moisture Occurred On:	1/06/2016	20/06/2016
Time to Next Moisture, Unit:	3 HR	

Application Equipment		
	A	B
Application Equipment:	Quad Bike	
Equipment Type:	BOOM	
Operation Pressure, Unit:	300 kPa	
Nozzle Type:	AIXR	
Nozzle Size:	110015	
Nozzle Spacing, Unit:	50 cm	
Nozzles/Row:	4	
Boom Length, Unit:	4 m	
Boom Height, Unit:	50 cm	
Ground Speed, Unit:	10.3 km/h	7.2 km/h
Carrier:	WATER	
Water Hardness (ppm CaCO ₃):	36	
Spray Volume, Unit:	70 L/ha	100 L/ha