

University of Georgia

ALS-RESISTANT NUTSEDGE CONTROL NON-CROP - BAREGROUND

Trial ID: NC-04-19 Study Dir.: JASON BLANKENSHIP/NICK BASINGER
Location: WEBSTER COUNTY Investigator: Eric P. Prostko

Reps: 3 Plots: 6 by 25 feet
Mix Size: 1.5 L

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Appl. Amount	Amt Product to Measure	Diluent	Rep 1	Rep 2	Rep 3
1	NTC									-	101	204	302
2	CADRE AGRIDEX	2 AS		4.0 oz/a 1.0 % v/v		POST1 A POST1 A	A A	15 GPA 15 GPA	3.125 mL/mx 15.0 mL/mx	1481.9 mL	102	203	306
3	CADRE AGRIDEX	2 AS		16.0 oz/a 1.0 % v/v		POST1 A POST1 A	A A	15 GPA 15 GPA	12.5 mL/mx 15.0 mL/mx	1472.5 mL	103	202	305
4	SANDEA AGRIDEX	75 DG		0.67 oz/a 1.0 % v/v		POST1 A POST1 A	A A	15 GPA 15 GPA	0.5018 g/mx 15.0 mL/mx	1484.5 mL	104	205	301
5	BROADLOOM AGRIDEX BROADLOOM AGRIDEX	4 SC 4 SC		32.0 oz/a 1.0 % v/v 32.0 oz/a 1.0 % v/v		POST1 A POST1 A POST2 B POST2 B	A A B B	15 GPA 15 GPA 15 GAL/AC 15 GAL/AC	25.0 mL/mx 15.0 mL/mx 25.0 mL/mx 15.0 mL/mx	1460 mL 1460 mL	105	206	303
6	CADRE AGRIDEX	2 AS		32.0 oz/a 1.0 % v/v		POST1 A POST1 A	A A	15 GPA 15 GPA	25.0 mL/mx 15.0 mL/mx	1460 mL	106	201	304

Sort Order: Treatment

Trial Comments

PREVIOUSLY CONFIRMED SITE OF ALS-RESISTANT YELLOW NUTSEDGE

SUMMARY:

1) YELLOW NUTSEDGE CONTROL WITH SINGLE POST APPLICATIONS OF CADRE OR SANDEA WERE POOR (30% CONTROL OR LESS).

2) SPLIT APPLICATIONS OF BROADLOOM @ 32 OZ/A PROVIDED 70% CONTROL OF YELLOW NUTSEDGE.

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WEED STAGE AT EACH APPLICATION						
	A	B	C	D	E	F
Weed 1	Stage: CYPES 8-10" TAL	10-12"	_____	_____	_____	_____
Stage Scale:	6-8 LEAF	10-12 LF	_____	_____	_____	_____
Density, Unit:	_____	_____	_____	_____	_____	_____

APPLICATION EQUIPMENT						
	A	B	C	D	E	F
Appl. Equipment:	BACKPACK SAME AS A					
Operating Pressure:	40	_____	_____	_____	_____	_____
Nozzle Type:	AIXR	_____	_____	_____	_____	_____
Nozzle Size:	11002	_____	_____	_____	_____	_____
Nozzle Spacing, Unit:	20	IN	_____	_____	_____	_____
Nozzles/Row:	_____	_____	_____	_____	_____	_____
Band Width, Unit:	_____	_____	_____	_____	_____	_____
Boom Length, Unit:	60	IN	_____	_____	_____	_____
Boom Height, Unit:	20	IN	_____	_____	_____	_____
Ground Speed, Unit:	3.5	MPH	_____	_____	_____	_____
Incorporation Equip.:	_____	_____	_____	_____	_____	_____
Hours to Incorp.:	_____	_____	_____	_____	_____	_____
Incorp. Depth, Unit:	_____	_____	_____	_____	_____	_____
Carrier:	WATER	_____	_____	_____	_____	_____
Spray Volume, Unit:	15	GPA	_____	_____	_____	_____
Spray pH:	_____	_____	_____	_____	_____	_____
Propellant:	CO2	_____	_____	_____	_____	_____
Tank Mix (Y/N):	_____	_____	_____	_____	_____	_____

Trt No	Treatment Application Comment
_____	_____

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Trial ID: NC-04-19			Study Dir.: JASON BLANKENSHIP/NICK BASINGER							
Location: WEBSTER COUNTY			Investigator: Eric P. Prostko							
					Cypes	Cypes	Cypes			
					Control	Conttol	Contro -			
					Percent	Percent	Percent			
					Jul-25-19	Aug-2-19	Aug-7-19			
					10 DA-A	18 DA-A	23 DA-A			
Trt	Treatment	Form	Form	Rate	Grow	Appl				
No.	Name	Conc	Type	Rate	Unit	Stg	Code	1	2	3
1	NTC							0.0 c	0.0 e	0.0 d
2	CADRE AGRIDEX	2 AS		4.0 oz/a 1.0 % v/v		POST1 A POST1 A		0.0 c	1.7 e	1.0 d
3	CADRE AGRIDEX	2 AS		16.0 oz/a 1.0 % v/v		POST1 A POST1 A		6.7 b	6.7 d	0.0 d
4	SANDEA AGRIDEX	75 DG		0.67 oz/a 1.0 % v/v		POST1 A POST1 A		23.3 a	30.0 b	30.0 b
5	BROADLOOM AGRIDEX	4 SC		32.0 oz/a 1.0 % v/v		POST1 A POST1 A		8.3 b	71.7 a	70.0 a
	BROADLOOM AGRIDEX	4 SC		32.0 oz/a 1.0 % v/v		POST2 B POST2 B				
6	CADRE AGRIDEX	2 AS		32.0 oz/a 1.0 % v/v		POST1 A POST1 A		10.0 b	16.7 c	11.7 c
LSD P=.10								5.68	4.61	5.87
Standard Deviation								3.84	3.12	3.97
CV								47.63	14.77	21.12
Grand Mean								8.06	21.11	18.78
Bartlett's X2								0.974	1.007	4.734
P(Bartlett's X2)								0.614	0.80	0.094

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Randomized Complete Block (RCB) AOV For Cypes Control Percent Jul-25-19 10 DA-A (Data Column 1)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	17	1256.944444			
Replicate	2	2.777778	1.388889	0.094	0.9108
Treatment	5	1106.944444	221.388889	15.038	0.0002
Error	10	147.222222	14.722222		

Randomized Complete Block (RCB) AOV For Cypes Conttol Percent Aug-2-19 18 DA-A (Data Column 2)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	17	11277.777778			
Replicate	2	119.444444	59.722222	6.143	0.0182
Treatment	5	11061.111111	2212.222222	227.543	0.0001
Error	10	97.222222	9.722222		

Randomized Complete Block (RCB) AOV For Cypes ----- Contro Percent Aug-7-19 23 DA-A (Data Column 3)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	17	11637.111111			
Replicate	2	15.444444	7.722222	0.491	0.6259
Treatment	5	11464.444444	2292.888889	145.837	0.0001
Error	10	157.222222	15.722222		

Weed Code
Cypes = NUTSEDGE, YELLOW / CYPERUS ESCULENTUS L.

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Weed Code	Cypes	Cypes	Cypes
Crop Code			-----
Part Rated			Contro -
Rating Data Type	Control	Conttol	Percent
Rating Unit	Percent	Percent	Percent
Rating Date	Jul-25-19	Aug-2-19	Aug-7-19
Trt-Eval Interval	10 DA-A	18 DA-A	23 DA-A
Trt Treatment	Form Form	Rate	Grow
No. Name	Conc Type	Rate Unit	Stg
Appl			
Code Plot			
	1	2	3
1 NTC	101	0.0	0.0
	204	0.0	0.0
	302	0.0	0.0
Mean =	0.0	0.0	0.0
2 CADRE	102	0.0	0.0
2 AS			
4.0 oz/a			
POST1 A			
AGRIDEX	203	0.0	5.0
1.0 % v/v			
POST1 A	306	0.0	0.0
Mean =	0.0	1.7	1.0
3 CADRE	103	10.0	10.0
2 AS			
16.0 oz/a			
POST1 A			
AGRIDEX	202	10.0	10.0
1.0 % v/v			
POST1 A	305	0.0	0.0
Mean =	6.7	6.7	0.0
4 SANDEA	104	20.0	30.0
75 DG			
0.67 oz/a			
POST1 A			
AGRIDEX	205	20.0	30.0
1.0 % v/v			
POST1 A	301	30.0	30.0
Mean =	23.3	30.0	30.0
5 BROADLOOM	105	10.0	75.0
4 SC			
32.0 oz/a			
POST1 A			
AGRIDEX	206	10.0	75.0
1.0 % v/v			
POST1 A	303	5.0	65.0
BROADLOOM			
4 SC			
32.0 oz/a			
POST2 B			
AGRIDEX			
1.0 % v/v			
POST2 B	Mean =	8.3	71.7
Mean =			70.0
6 CADRE	106	10.0	20.0
2 AS			
32.0 oz/a			
POST1 A			
AGRIDEX	201	10.0	20.0
1.0 % v/v			
POST1 A	304	10.0	10.0
Mean =	10.0	16.7	11.7

Weed Code
 Cypes = NUTSEDGE, YELLOW / CYPERUS ESCULENTUS L.