

University of Georgia

LARGE NUTSEDGE CONTROL WITH CADRE + DUAL MAGNUM
 WITH/WITHOUT BASAGRAN - DEMONSTRATION - NON-CROP
 Trial ID: PE-99-18 Study Dir.:
 Location: ATTAPULGUS Investigator: Eric P. Prostko

Reps: 1 Plots: 6 by 100 feet
 Spray vol: 15 GAL/AC Mix Size: 1.5 L (total for 1 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Code	Amt Product to Measure	Rep 1
1	NTC								101
2	CADRE DUAL MAGNUM	2 AS 7.62 EC		4.0 oz/a 16.0 oz/a		POST A POST A		3.125 mL/mx 12.5 mL/mx	102
3	CADRE DUAL MAGNUM BASAGRAN	2 AS 7.62 EC 4 SL		4.0 oz/a 16.0 oz/a 16.0 oz/a		POST A POST A POST A		3.125 mL/mx 12.5 mL/mx 12.5 mL/mx	103
4	CADRE DUAL MAGNUM BASAGRAN	2 AS 7.62 EC 4 SL		4.0 oz/a 16.0 oz/a 32.0 oz/a		POST A POST A POST A		3.125 mL/mx 12.5 mL/mx 25.0 mL/mx	104

Sort Order: Treatment

Trial Comments

SUMMARY:

- 1) NON-REPLICATED TRIAL SO RESULTS NEED TO BE CONFIRMED WITH ADDITIONAL RESEARCH.
- 2) BASAGRAN TANK-MIXED WITH CADRE + DUAL MAGNUM IMPROVED THE CONTROL OF YELLOW NUTSEDGE BUT REDUCED THE CONTROL OF PALMER AMARANTH AND FLORIDA BEGGARWEED.

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GENERAL TRIAL INFORMATION

Study Director: HINSON **Title:** _____ **Postal Code:** _____
Affiliation: _____
Investigator: Eric P. Prostko **Title:** _____ **Postal Code:** _____
Affiliation: _____
Trial Status: _____ **Initiation Date:** _____ **Country:** _____
City: _____ **State/Prov.:** _____ **Postal Code:** _____
Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N
Objective: _____
Conclusions: _____

CROP AND PEST DESCRIPTION

Weed 1: AMAPA PALMER AMARANTH **2:** DEDTO FLORIDA BEGGARWEED
Weed 3: CYPES YELLOW NUTSEDGE **4:** _____

Crop 1: _____ **Variety:** _____ **Planting Date:** _____
Planting Method: _____ **Rate:** _____ **Depth:** _____
Perennial Age: _____ **Row Spacing:** _____ **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** _____ **Emergence Date:** _____

Plot Width, Unit: 6 FT **Plot Length, Unit:** 100 FT **Reps:** 1
Site Type: _____
Tillage Type: _____ **Study Design:** RACOB
Trial Initiation Comments: _____

Previous: Crops _____ **Pesticides** _____ **Year** _____
1. _____

MAINTENANCE

Field Prep./Maintenance: _____
No. **Date** **Treatment Name** **Form** **Form** **Form** **Rate** **Unit**
1. _____

SOIL DESCRIPTION

Texture: _____ **% OM:** _____ **% Sand:** _____ **% Silt:** _____ **% Clay:** _____
pH: _____ **CEC:** _____ **Soil Name:** _____ **Fertility Level:** _____

MOISTURE CONDITIONS

On: Date _____ **Time** _____ **Amount** _____ **Unit** _____ **Interval** _____ **Unit** _____
1. _____

Overall Moisture Conditions: _____
Closest Weather Station: _____ **Distance:** _____ **Unit:** _____

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date: Jun-18-18						
Time of Day: 9:00 AM						
Application Method: BROADCAST						
Application Timing: POST						
Applic. Placement: FOLIAGE						
Air Temp., Unit: 79 F						
% Relative Humidity: 85						
Wind Velocity, Unit: 1 MPH						
Dew Presence (Y/N): Y						
Water Hardness: --						
Soil Temp., Unit: 79 F						
Soil Moisture: OPTIMUM						
% Cloud Cover: 0						

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage: _____						
Stage Scale: _____						
Height, Unit: _____						

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WEED STAGE AT EACH APPLICATION		A	B	C	D	E	F
Weed 1	Stage: AMAPA	_____	_____	_____	_____	_____	_____
	Stage Scale:	_____	_____	_____	_____	_____	_____
	Density, Unit:	_____	_____	_____	_____	_____	_____
Weed 2	Stage: DEDTO	_____	_____	_____	_____	_____	_____
	Stage Scale:	_____	_____	_____	_____	_____	_____
	Density, Unit:	_____	_____	_____	_____	_____	_____
Weed 3	Stage: CYPES 20" TALL	_____	_____	_____	_____	_____	_____
	Stage Scale: FLOWERING	_____	_____	_____	_____	_____	_____
	Density, Unit:	_____	_____	_____	_____	_____	_____

APPLICATION EQUIPMENT		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	_____	_____	_____	_____	_____	_____
Operating Pressure:	38	_____	_____	_____	_____	_____	_____
Nozzle Type:	AIXR	_____	_____	_____	_____	_____	_____
Nozzle Size:	11002	_____	_____	_____	_____	_____	_____
Nozzle Spacing, Unit:	20 IN	_____	_____	_____	_____	_____	_____
Nozzles/Row:	_____	_____	_____	_____	_____	_____	_____
Band Width, Unit:	60 IN	_____	_____	_____	_____	_____	_____
Boom Length, Unit:	20 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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Weed Code						CYPES	AMAPA	CYPES	DEDTO
Crop Code						-----	-----	-----	-----
Rating Data Type						CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit						PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						Jul-17-18	Jul-17-18	Aug-15-18	Aug-15-18
Trt-Eval Interval						29 DA-A	29 DA-A	58 DA-A	58 DA-A
Trt	Treatment	Form	Form	Rate	Grow	Appl			
No.	Name	Conc	Type	Rate	Unit	Stg	Code		
1	NTC								
							1	2	3
									4
2	CADRE	2 AS		4.0 oz/a	POST	A	30.0	85.0	95.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST	A			60.0
3	CADRE	2 AS		4.0 oz/a	POST	A	60.0	65.0	95.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST	A			40.0
	BASAGRAN	4 SL		16.0 oz/a	POST	A			
4	CADRE	2 AS		4.0 oz/a	POST	A	75.0	50.0	95.0
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST	A			30.0
	BASAGRAN	4 SL		32.0 oz/a	POST	A			
Tukey's HSD P=.10							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Grand Mean						41.25	50.00	71.25	32.50
Levene's F						.	.	.	.
Levene's Prob(F)						.	.	.	.

Weed Code

CYPES = NUTSEDGE, YELLOW / CYPERUS ESCULENTUS L.

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.

DEDTO = BEGGARWEED, FLORIDA / DESMODIUM TORTUOSUM (SWEET) DC.

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)

Could not calculate Tukey's HSD (% mean diff) for columns 1,2,3,4 because error mean square = 0.

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Rating Unit						PERCENT	PERCENT	PERCENT	PERCENT
Rating Date						Jul-17-18	Jul-17-18	Aug-15-18	Aug-15-18
Trt-Eval Interval						29 DA-A	29 DA-A	58 DA-A	58 DA-A
Trt	Treatment	Form	Form	Rate	Grow	Appl			
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	
1	NTC						101		
							Mean =		
							0.0	0.0	0.0
							0.0	0.0	0.0
2	CADRE	2 AS		4.0 oz/a	POST A		102		
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST A				
							Mean =		
							30.0	85.0	95.0
							30.0	85.0	95.0
3	CADRE	2 AS		4.0 oz/a	POST A		103		
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST A				
	BASAGRAN	4 SL		16.0 oz/a	POST A				
							Mean =		
							60.0	65.0	95.0
							60.0	65.0	95.0
4	CADRE	2 AS		4.0 oz/a	POST A		104		
	DUAL MAGNUM	7.62 EC		16.0 oz/a	POST A				
	BASAGRAN	4 SL		32.0 oz/a	POST A				
							Mean =		
							75.0	50.0	95.0
							75.0	50.0	95.0

Weed Code

CYPES = NUTSEDGE, YELLOW / CYPERUS ESCULENTUS L.

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