

# LSU Northeast Research Station

## Evaluation of Grasp for Texasweed control.

Trial ID: SJ07R028

Study Dir.:

Location:

Investigator: Bill Williams

### GENERAL TRIAL INFORMATION

Investigator: Bill Williams

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

### CROP AND WEED DESCRIPTION

WeedCode	Common Name	Scientific Name
1.	ECHCG Common barnyardgrass	Echinochloa crus-galli
2.	CNPPA Texasweed	Caperonia palustris
3.	CYPES Chufa	Cyperus esculentus

Crop 1: ORYSA RICE

Variety: Cocodrie

Planting Date: 9/May/07

Planting Method: Cocodrie

Depth: 1 IN

Row Spacing: 8 IN

Seed Bed: MEDIUM

Soil Moisture: Dry

### SITE AND DESIGN

Plot Width, Unit: 6.67 FT

Plot Length, Unit: 15 FT

Reps: 3

Site Type: RICE PADDY

Tillage Type: CONVENTIONAL-TILL

Study Design: RANDOMIZED COMPLETE BLOCK

### SOIL DESCRIPTION

% Sand: 25.2	% OM: 2.07	Texture: Clay
% Silt: 32.8	pH: 7.87	Soil Name: Sharkey
% Clay: 42	CEC: 21.9	Fert. Level: EXCELLENT

### MOISTURE CONDITIONS

Date	Amount	Unit	Type
1. 2/May/07	0.04	IN	
2. 3/May/07	1.24	IN	
3. 14/May/07			FLUSH
4. 15/May/07	0.02	IN	
5. 16/May/07	0.01	IN	
6. 17/May/07	0.01	IN	
7. 21/May/07			FLUSH
8. 3/Jun/07	0.02	IN	
9. 12/Jun/07			FERTILIZE - 300# prilled urea
10. 12/Jun/07			FLOOD
11. 16/Jun/07	0.01	IN	
12. 18/Jun/07	0.02	IN	
13. 19/Jun/07	0.4	IN	
14. 2/Jul/07	0.3	IN	
15. 3/Jul/07	0.06	IN	
16. 4/Jul/07	1.14	IN	
17. 5/Jul/07	0.31	IN	
18. 6/Jul/07	0.27	IN	
19. 7/Jul/07	1.39	IN	
20. 9/Jul/07	0.36	IN	
21. 10/Jul/07	0.01	IN	
22. 11/Jul/07	0.27	IN	
23. 13/Jul/07	0.3	IN	

24.14/Jul/071.96 IN  
25.15/Jul/072.8 IN  
26.17/Jul/071.56 IN  
27.20/Jul/070.93 IN  
28.21/Jul/070.1 IN  
29.22/Jul/070.01 IN  
30.30/Jul/072.35 IN

**Overall Moisture Conditions:** Dry

**Closest Weather Station:** Northeast Research Station

**Distance:** 0.5

**Unit:** MI

**APPLICATION DESCRIPTION**

**A**

**Application Date:** 9/Jun/07  
**Application Method:** SPRAY  
**Application Timing:** 4-5 LF  
**Applic. Placement:** BROFOL  
**Air Temp., Unit:** 80 F  
**% Relative Humidity:** 78  
**Wind Velocity, Unit:** 4 MPH  
**Soil Temp., Unit:** 81 F

**CROP STAGE AT EACH APPLICATION**

**A**

**Crop 1 Code, Stage:** ORYSA  
**Stage Scale:** 5 LF  
**Height, Unit:** 6 "

**WEED STAGE AT EACH APPLICATION**

**A**

**Weed 1 Code, Stage:** ECHCG  
**Stage Scale:** 7-8 LF  
**Density, Unit:** 5-6 "  
**Weed 2 Code, Stage:** CNPPA  
**Stage Scale:** 5-6 LF  
**Density, Unit:** 4-5 "  
**Weed 3 Code, Stage:** CYPES  
**Stage Scale:** 5-6 LF  
**Density, Unit:** 1-2 "

**APPLICATION EQUIPMENT**

**A**

**Appl. Equipment:** Backpack  
**Operating Pressure:** 31 PSI  
**Nozzle Type:** Greenleaf  
**Nozzle Size:** 11002  
**Nozzle Spacing, Unit:** 20 IN  
**Nozzles/Row:** 2  
**Ground Speed, Unit:** 2.8 MPH  
**Carrier:** Water  
**Spray Volume, Unit:** 15 GPA  
**Propellant:** CO2

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## Evaluation of Grasp for Texasweed control.

Trial ID: SJ07R028

Study Dir.:

Location:

Investigator: Bill Williams

Weed Code	CNPPA	CNPPA	CNPPA	CNPPA	SEBEX	SEBEX
Crop Code						
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Rating Date	15/Jun/07	22/Jun/07	6/Jul/07	3/Aug/07	15/Jun/07	22/Jun/07
Trt-Eval Interval	6 DA-A	13 DA-A	27 DA-A	55 DA-A	6 DA-A	13 DA-A

Trt No.	Treatment	Rate	Grow	1	2	3	4	5	6	
No.	Name	Rate Unit	Stg	1	2	3	4	5	6	
1	Grasp	2 OZ/A	4-5 lf	53	b 50	b 50	d 50	c 90	ab 93	a
	COC	2.5 % V/V	4-5 lf							
2	Grasp	2.25 OZ/A	4-5 lf	53	b 50	b 50	d 50	c 90	ab 93	a
	COC	2.5 % V/V	4-5 lf							
3	Grasp	2.5 OZ/A	4-5 lf	63	b 50	b 50	d 50	c 90	ab 90	a
	COC	2.5 % V/V	4-5 lf							
4	Regiment	0.5 OZ/A	4-5 lf	85	a 87	a 63	c 50	c 90	ab 93	a
	DYNE-AMIC	0.5 % V/V	4-5 lf							
5	Granstand	8 OZ/A	4-5 lf	53	b 53	b 53	d 53	c 57	d 53	c
	NIS	0.25 % V/V	4-5 lf							
6	Granstand	11 OZ/A	4-5 lf	83	a 80	a 92	a 90	a 57	d 53	c
	NIS	0.25 % V/V	4-5 lf							
7	Grasp	2 OZ/A	4-5 lf	53	b 50	b 50	d 50	c 83	b 93	a
	Granstand	8 OZ/A	4-5 lf							
	COC	2.5 % V/V	4-5 lf							
8	Londax	1.0 OZ/A	4-5 lf	88	a 93	a 83	ab 63	b 57	d 83	ab
	NIS	0.25 % V/V	4-5 lf							
9	Londax	0.75 OZ/A	4-5 lf	92	a 92	a 77	b 57	c 63	cd 75	b
	NIS	0.25 % V/V	4-5 lf							
10	Grasp	2 OZ/A	4-5 lf	93	a 93	a 93	a 90	a 90	ab 85	ab
	Londax	0.75 OZ/A	4-5 lf							
	COC	2.5 % V/V	4-5 lf							
11	Permit	1.0 OZ/A	4-5 lf	92	a 85	a 80	b 53	c 90	ab 90	a
	NIS	0.25 % V/V	4-5 lf							
12	Permit	0.5 OZ/A	4-5 lf	53	b 50	b 50	d 50	c 67	c 90	a
	NIS	0.25 % V/V	4-5 lf							
13	Grasp	2 OZ/A	4-5 lf	85	a 92	a 92	a 87	a 93	a 93	a
	Permit	0.5 OZ/A	4-5 lf							
	COC	2.5 % V/V	4-5 lf							
14	Regiment	0.5 OZ/A	4-5 lf	92	a 85	a 92	a 90	a 90	ab 93	a
	Permit	0.5 OZ/A	4-5 lf							
	DYNE-AMIC	0.5 % V/V	4-5 lf							
15	Grasp	2 OZ/A	4-5 lf	90	a 92	a 93	a 90	a 90	ab 93	a
	Londax	0.75 OZ/A	4-5 lf							



# LSU Northeast Research Station

Weed Code		CNPPA	CNPPA	CNPPA	CNPPA	SEBEX	SEBEX	
Crop Code								
Part Rated		PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit		%	%	%	%	%	%	
Rating Date		15/Jun/07	22/Jun/07	6/Jul/07	3/Aug/07	15/Jun/07	22/Jun/07	
Trt-Eval Interval		6 DA-A	13 DA-A	27 DA-A	55 DA-A	6 DA-A	13 DA-A	
Trt Treatment	Rate	Grow						
No. Name	Rate Unit	Stg	1	2	3	4	5	6

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# LSU Northeast Research Station

Weed Code	SEBEX	SEBEX
Crop Code		
Part Rated	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL
Rating Unit	%	%
Rating Date	6/Jul/07	3/Aug/07
Trt-Eval Interval	27 DA-A	55 DA-A

Trt No.	Treatment Name	Rate	Rate Unit	Grow Stg	7	8
1	Grasp	2	OZ/A	4-5 lf	93	a 90
	COC	2.5	% V/V	4-5 lf		a
2	Grasp	2.25	OZ/A	4-5 lf	93	a 90
	COC	2.5	% V/V	4-5 lf		a
3	Grasp	2.5	OZ/A	4-5 lf	93	a 90
	COC	2.5	% V/V	4-5 lf		a
4	Regiment	0.5	OZ/A	4-5 lf	93	a 90
	DYNE-AMIC	0.5	% V/V	4-5 lf		a
5	Granstand	8	OZ/A	4-5 lf	53	c 50
	NIS	0.25	% V/V	4-5 lf		c
6	Granstand	11	OZ/A	4-5 lf	83	ab 87
	NIS	0.25	% V/V	4-5 lf		a
7	Grasp	2	OZ/A	4-5 lf	93	a 90
	Granstand	8	OZ/A	4-5 lf		
	COC	2.5	% V/V	4-5 lf		
8	Londax	1.0	OZ/A	4-5 lf	93	a 90
	NIS	0.25	% V/V	4-5 lf		a
9	Londax	0.75	OZ/A	4-5 lf	75	b 63
	NIS	0.25	% V/V	4-5 lf		b
10	Grasp	2	OZ/A	4-5 lf	83	ab 77
	Londax	0.75	OZ/A	4-5 lf		
	COC	2.5	% V/V	4-5 lf		
11	Permit	1.0	OZ/A	4-5 lf	93	a 90
	NIS	0.25	% V/V	4-5 lf		a
12	Permit	0.5	OZ/A	4-5 lf	93	a 90
	NIS	0.25	% V/V	4-5 lf		a
13	Grasp	2	OZ/A	4-5 lf	93	a 90
	Permit	0.5	OZ/A	4-5 lf		
	COC	2.5	% V/V	4-5 lf		
14	Regiment	0.5	OZ/A	4-5 lf	93	a 90
	Permit	0.5	OZ/A	4-5 lf		
	DYNE-AMIC	0.5	% V/V	4-5 lf		
15	Grasp	2	OZ/A	4-5 lf	93	a 90
	Londax	0.75	OZ/A	4-5 lf		
	Permit	0.25	OZ/A	4-5 lf		
	COC	2.5	% V/V	4-5 lf		
16	Regiment	0.5	OZ/A	4-5 lf	93	a 90
	Londax	0.75	OZ/A	4-5 lf		

Permit	0.25 OZ/A	4-5 lf	
COC	2.5 % V/V	4-5 lf	
LSD (P=.10)		8.4	11.9
Standard Deviation		6.1	8.6
CV		6.9	10.09
Grand Mean		88.44	84.79
Bartlett's X2		26.603	3.208
P(Bartlett's X2)		0.032*	0.201
Replicate F		1.807	0.028
Replicate Prob(F)		0.1816	0.9720
Treatment F		9.426	5.645
Treatment Prob(F)		0.0001	0.0001

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Weed Code	SEBEX	SEBEX
Crop Code		
Part Rated	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL
Rating Unit	%	%
Rating Date	6/Jul/07	3/Aug/07
Trt-Eval Interval	27 DA-A	55 DA-A

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Trt Treatment	Rate	Grow	
No. Name	Rate Unit	Stg	7      8

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)

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