

## LSU Northeast Research Station

Evaluation of Grasp for Texasweed control.

Trial ID: SJ05R029

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**

Weed Code	Common Name	Scientific Name
1.	ECHCG Barnyardgrass, common	Echinochloa crus-galli
2.	CYPCP Annual sedge	Cyperus compressus
3.	SEBEX Coffeebean	Sesbania exaltata
4.	CNPPA Texasweed	Caperonia palustris
5.	COMDI Dayflower, spreading	Commelina diffusa

**Crop 1:** ORYSA RICE**Variety:** CL161**Planting Date:** 5/5/05**Planting Method:** DRILLED**Rate:** 90 LB/A**Depth:** 0.25 IN**Row Spacing:** 8 IN**Spacing Within Row:** 5 FT**Seed Bed:** MEDIUM**Soil Moisture:** DRY**Emergence Date:** 5/15/05**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:** 24**% OM:** 2.11**Texture:** Clay**% Silt:** 34**pH:** 7.94**Soil Name:** Sharkey**% Clay:** 42**CEC:** 21.9**Fert. Level:** EXCELLENT

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**MOISTURE CONDITIONS**

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	5/7/05	1:00 PM	3	in	Flush	0	n/a
2.	5/10/05	6:30 PM	0.25	in	Rainfall	0	n/a
3.	5/13/05	1:00 PM	3	in	Flush	0	n/a
4.	5/15/05	5:30 PM	0.46	in	Rainfall	0	n/a
5.	5/25/05	8:00 PM	0.78	in	Rainfall	0	n/a
6.	5/29/05	1:00 AM	0.63	in	Rainfall	0	n/a
7.	5/30/05	11:00 A	1.51	in	Rainfall	0	n/a
8.	5/31/05	8:00 PM	0.26	in	Rainfall	0	n/a
9.	6/2/05	4:00 PM	0.04	in	Rainfall	0	n/a
10.	6/6/05	7:00 PM	0.39	in	Rainfall	0	n/a
11.	6/9/05	1:00 PM	3	in	300 lb Urea fb Permanent flood	0	n/a
12.	6/18/05	11:00 A	0.42	in	Rainfall	0	n/a
13.	7/3/05	6:00 PM	0.06	in	Rainfall	0	n/a
14.	7/6/05	1:30 PM	1.6	in	Rainfall	0	n/a
15.	7/8/05	1:45 PM	0.93	in	Rainfall	0	n/a
16.	7/10/05	1:00 PM	0.04	in	Rainfall	0	n/a
17.	7/14/05	2:00 PM	0.44	in	Rainfall	0	n/a
18.	7/16/05	10:00 P	0.04	in	Rainfall	0	n/a
19.	7/17/05	1:00 PM	0.25	in	Rainfall	0	n/a
20.	7/18/05	7:00 PM	0.05	in	Rainfall	0	n/a
21.	7/22/05	2:30 PM	0.15	in	Rainfall	0	n/a
22.	8/4/05	3:30 PM	0.27	in	Rainfall	0	n/a
23.	8/5/05	8:00 PM	0.45	in	Rainfall	0	n/a
24.	8/6/05	6:00 PM	0.25	in	Rainfall	0	n/a
25.	8/16/05	6:00 PM	1.31	in	Rainfall	0	n/a
26.	8/22/05	9:00 PM	0.05	in	Rainfall	0	n/a

Overall Moisture Conditions: Adequate

Closest Weather Station: Northeast Research Station

Distance: 0.25 Unit: MI

**APPLICATION DESCRIPTION****A**

Application Date: 6/5/05  
 Time of Day: 2:00  
 Application Method: SPRAY  
 Application Timing: 4-5 LF  
 Applic. Placement: BROFOL  
 Air Temp., Unit: 87 F  
 % Relative Humidity: 74  
 Wind Velocity, Unit: 5 W  
 Dew Presence (Y/N): N  
 Soil Temp., Unit: 86 F  
 Soil Moisture: DAMP  
 % Cloud Cover: 90

**CROP STAGE AT EACH APPLICATION****A**

Crop 1 Code, Stage: ORYSA  
 Stage Scale: 4 LF  
 Height, Unit: 5 "

## LSU Northeast Research Station

**WEED STAGE AT EACH APPLICATION****A**

**Weed 1 Code, Stage:** ECHCG  
**Stage Scale:** 3-4 LF  
**Density, Unit:** 3 "

**Weed 2 Code, Stage:** CYPCP  
**Stage Scale:** 2 LF  
**Density, Unit:** 1 "

**Weed 3 Code, Stage:** SEBEX  
**Stage Scale:** 4-5 LF  
**Density, Unit:** 3-4 "

**Weed 4 Code, Stage:** CNPPA  
**Stage Scale:** 2-3 LF  
**Density, Unit:** 3 "

**Weed 5 Code, Stage:** COMDI  
**Stage Scale:** 2-3 LF

**APPLICATION EQUIPMENT****A**

**Appl. Equipment:** Backpack  
**Operating Pressure:** 31  
**Nozzle Type:** Greenleaf  
**Nozzle Size:** 11002  
**Nozzle Spacing, Unit:** 20 IN  
**Nozzles/Row:** 4  
**Carrier:** Water  
**Spray Volume, Unit:** 15 GPA  
**Propellant:** CO2

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Weed Code	CNPPA	CNPPA	CNPPA	CNPPA
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Rating Date	6/10/05	6/20/05	7/7/05	8/10/05
Trt-Eval Interval	8 DA-A	15 DA-A	32 DA-A	66 DA-A

Trt No.	Treatment Name	Rate	Unit	Grow Stg	1	2	3	4	
1	Grasp	2	OZ/A	4-5 lf	43	cd 73	b 33	g 0	f
	COC	2.5	% V/V	4-5 lf					
2	Grasp	2.25	OZ/A	4-5 lf	50	c 78	b 43	ef 0	f
	COC	2.5	% V/V	4-5 lf					
3	Grasp	2.5	OZ/A	4-5 lf	50	c 87	a 57	d 23	e
	COC	2.5	% V/V	4-5 lf					
4	Regiment	0.5	OZ/A	4-5 lf	47	c 78	b 43	ef 37	d
	DYNE-AMIC	0.5	% V/V	4-5 lf					
5	Granstand	8	OZ/A	4-5 lf	33	e 53	c 0	h 0	f
	NIS	0.25	% V/V	4-5 lf					
6	Granstand	11	OZ/A	4-5 lf	77	a 90	a 92	a 92	a
	NIS	0.25	% V/V	4-5 lf					
7	Grasp	2	OZ/A	4-5 lf	37	de 90	a 37	fg 0	f
	Granstand	8	OZ/A	4-5 lf					
	COC	2.5	% V/V	4-5 lf					
8	Londax	1.0	OZ/A	4-5 lf	60	b 78	b 83	b 67	b
	NIS	0.25	% V/V	4-5 lf					
9	Londax	0.75	OZ/A	4-5 lf	33	e 57	c 33	g 0	f
	NIS	0.25	% V/V	4-5 lf					
10	Grasp	2	OZ/A	4-5 lf	50	c 90	a 92	a 92	a
	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	47	c 72	b 77	b 63	b
	NIS	0.25	% V/V	4-5 lf					
12	Permit	0.5	OZ/A	4-5 lf	23	f 53	c 50	de 0	f
	NIS	0.25	% V/V	4-5 lf					
13	Grasp	2	OZ/A	4-5 lf	67	b 90	a 67	c 53	c
	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	67	b 88	a 82	b 67	b
	Permit	0.5	OZ/A	4-5 lf					
	DYNE-AMIC	0.5	% V/V	4-5 lf					

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Weed Code	CNPPA	CNPPA	CNPPA	CNPPA
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Rating Date	6/10/05	6/20/05	7/7/05	8/10/05
Trt-Eval Interval	8 DA-A	15 DA-A	32 DA-A	66 DA-A
Trt Treatment	Rate	Grow		
No. Name	Rate Unit	Stg	1	2
15 Grasp	2 OZ/A	4-5 lf	67	b 93
Londax	0.75 OZ/A	4-5 lf		a 93
Permit	0.25 OZ/A	4-5 lf		a 93
COC	2.5 % V/V	4-5 lf		a 93
16 Regiment	0.5 OZ/A	4-5 lf	67	b 93
Londax	0.75 OZ/A	4-5 lf		a 93
Permit	0.25 OZ/A	4-5 lf		a 93
COC	2.5 % V/V	4-5 lf		a
LSD (P=.05)		8.5	7.1	7.8
Bartlett's X2		0.0	5.027	4.483
P(Bartlett's X2)		1.00	0.985	0.985
			8.9	9.784
			0.368	

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

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