

# LSU Northeast Research Station

## Evaluation of Grasp for Texasweed control.

Trial ID: SJ06R032  
Location:

Protocol ID:  
Study Director:  
Investigator: Bill Williams

### General Trial Information

Investigator: Bill Williams

### Crop Description

**Crop 1:** ORYSA Oryza sativa Common rice  
**Variety:** CL 131 **Description:** 5/24/06  
**BBCH Scale:** BRIC  
**Planting Method:** DRILLED **Rate, Unit:** 100 LB/A  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 8 IN  
**Seed Bed:** MEDIUM  
**Soil Moisture:** DRY **Emergence Date:** 5/31/06  
**Harvested Width, Unit:** 5 FT **Harvested Length, Unit:** 12 FT  
**Harvest Equipment:** Small plot combine  
**% Standard Moisture:** 12.0

### Pest Description

**Pest 1 Type:** W **Code:** ECHCG **Echinochloa crus-galli**  
**Common Name:** Common barnyardgrass

**Pest 2 Type:** W **Code:** LEFPA **Leptochloa panicoides**  
**Common Name:** Amazon sprangletop

**Pest 3 Type:** W **Code:** SEBEX **Sesbania exaltata**  
**Common Name:** Hemp sesbania

**Pest 4 Type:** W **Code:** CNPPA **Caperonia palustris**  
**Common Name:** Texasweed

**Pest 5 Type:** W **Code:** CYPPIR **Cyperus iria**  
**Common Name:** Rice flatsedge

**Pest 6 Type:** W **Code:** COMDI **Commelina diffusa**  
**Common Name:** Spreading dayflower

### Site and Design

**Plot Width, Unit:** 6.67 FT **Site Type:** FIELD  
**Plot Length, Unit:** 15 FT **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 3 **Study Design:** Randomized Complete Block

### Maintenance

No.	Date	Maintenance Treatment Name	Rate	Unit
1.	6/8/06	Clincher (overspray)	15	oz/A
2.	6/27/06	Prilled urea	300	LB/A

### Soil Description

**Description Name:** Bay 4 - North End  
**% 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

**Overall Moisture Conditions:** Dry  
**Closest Weather Station:** Northeast Research Station **Distance:** 0.25 **Unit:** MI

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	Date	Time	Amount	Unit	Type	Interval	Unit
1.	5/26/06				Flush		
2.	5/28/06	5:00 pm	0.18	In	Rain	1	Hou
3.	5/29/06	2:30 pm	0.46	In	Rain	2.5	Hou
4.	5/30/06	1:30 pm	0.79	In	Rain	3	Hou
5.	6/2/06	6:30 pm	0.03	In	Rain	1	Hou
6.	6/5/06				Flush		
7.	6/12/06				Flush		
8.	6/17/06	7:00 pm	0.03	In	Rain	1	Hou
9.	6/18/06	10:00 p	0.01	In	Rain	1	Hou
10.	6/19/06	10:00 p	0.05	In	Rain	1	Hou
11.	6/20/06	2:30 pm	0.19	In	Rain	1	Hou
12.	6/24/06	9:00 pm	0.07	In	Rain	1	Hou
13.	6/27/06				Fertilizer		
14.	6/28/06				Permanent Flood		
15.	7/3/06	1:00 pm	0.07	In	Rain	0.5	Hou
16.	7/4/06	3:00 pm	0.69	In	Rain	1.5	Hou
17.	7/4/06	7:00 am				1	Hou
18.	7/5/06	12:00 a	1.25	In	Rain	0.75	Hou
19.	7/5/06	6:00pm				1.5	Hou
20.	7/6/06	6:00 pm	0.35	In	Rain	3.5	Hou
21.	7/11/06	2:00 pm	0.45	In	Rain	2	Hou

### Application Description

A	
Application Date:	6/20/06
Time of Day:	10:00
Application Method:	SPRAY
Application Timing:	4-5 LF
Application Placement:	BANFOL
Air Temperature, Unit:	85 F
% Relative Humidity:	68
Wind Velocity, Unit:	2 MPH
Wind Direction:	SE
Soil Temperature, Unit:	84 F
Soil Moisture:	DAMP
% Cloud Cover:	10

### Crop Stage At Each Application

A	
Crop 1 Code, BBCH Scale:	ORYSA BRIC
Stage Scale Used:	BBCH
Stage Majority, Percent:	4 LF 100
Height, Unit:	7 IN
Height Minimum, Maximum:	6 8

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## Pest Stage At Each Application

	A
<b>Pest 1 Code, Disc., Scale:</b>	ECHCG W
<b>Stage Majority, Percent:</b>	4-5 LF 100
<b>Height, Unit:</b>	2.5 IN
<b>Height Minimum, Maximum:</b>	2 3
<b>Pest 2 Code, Disc., Scale:</b>	LEFPA W
<b>Stage Majority, Percent:</b>	3 LF 100
<b>Height, Unit:</b>	2 IN
<b>Height Minimum, Maximum:</b>	2 2
<b>Pest 3 Code, Disc., Scale:</b>	SEBEX W
<b>Stage Majority, Percent:</b>	7-8 LF 100
<b>Height, Unit:</b>	4.5 IN
<b>Height Minimum, Maximum:</b>	4 5
<b>Pest 4 Code, Disc., Scale:</b>	CNPPA W
<b>Stage Majority, Percent:</b>	7 LF 100
<b>Height, Unit:</b>	6 IN
<b>Height Minimum, Maximum:</b>	6 6
<b>Pest 5 Code, Disc., Scale:</b>	CYPIR W
<b>Stage Majority, Percent:</b>	5 LF 100
<b>Height, Unit:</b>	3.5 IN
<b>Height Minimum, Maximum:</b>	3.5 3.5
<b>Pest 6 Code, Disc., Scale:</b>	COMDI W
<b>Stage Majority, Percent:</b>	N/A

## Application Equipment

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

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## Evaluation of Grasp for Texasweed control.

Trial ID: SJ06R032  
Location:

Protocol ID:  
Study Director:  
Investigator: Bill Williams

Pest Code	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG	SEBEX	SEBEX	SEBEX	CNPPA	CNPPA	CNPPA			
Rating Date	5/31/06	6/15/06	6/22/06	6/26/06	7/3/06	6/26/06	7/3/06	7/18/06	6/26/06	7/3/06	7/18/06			
Days After First/Last Applic.	-20 -20	-5 -5	2 2	6 6	13 13	6 6	13 13	28 28	6 6	13 13	28 28			
Trt-Eval Interval	-20 DA-A	-5 DA-A	2 DA-A	6 DA-A	13 DA-A	6 DA-A	13 DA-A	28 DA-A	6 DA-A	13 DA-A	28 DA-A			
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7	8	9	10	11
1	Grasp	2 oz/a		95.0 a	80.0 a	66.7 a	80.0 c	80.0 a	83.3 bc	95.0 a	90.0 a	56.7 f	73.3 b	63.3 b
	COC	2.5 % v/v												
2	Grasp	2.25 oz/a		95.0 a	80.0 a	66.7 a	85.0 abc	86.7 a	91.7 a	95.0 a	90.0 a	60.0 ef	80.0 ab	73.3 b
	COC	2.5 % v/v												
3	Grasp	2.5 oz/a		95.0 a	80.0 a	66.7 a	90.0 a	85.0 a	95.0 a	95.0 a	95.0 a	73.3 cd	86.7 a	73.3 b
	COC	2.5 % v/v												
4	Regiment	0.5 oz/a		95.0 a	80.0 a	66.7 a	90.0 a	88.3 a	90.0 ab	93.3 a	90.0 a	66.7 de	83.3 ab	75.0 b
	DYNE-AMIC	0.5 % v/v												
5	Granstand	8 oz/a		95.0 a	80.0 a	66.7 a	53.3 d	46.7 b	53.3 f	78.3 b	71.7 c	30.0 g	56.7 c	63.3 b
	NIS	0.25 % v/v												
6	Granstand	11 oz/a		95.0 a	80.0 a	66.7 a	53.3 d	46.7 b	60.0 e	90.0 a	83.3 ab	56.7 f	86.7 a	93.3 a
	NIS	0.25 % v/v												
7	Grasp	2 oz/a		95.0 a	80.0 a	66.7 a	81.5 bc	80.8 a	88.0 ab	94.9 a	92.4 a	61.1 ef	80.7 ab	70.0 b
	Granstand	8 oz/a												
	COC	2.5 % v/v												
8	Londax	1.0 oz/a		95.0 a	80.0 a	66.7 a	51.5 d	50.8 b	65.5 e	79.9 b	77.4 bc	31.1 g	85.7 a	80.0 ab
	NIS	0.25 % v/v												
9	Londax	0.75 oz/a		95.0 a	80.0 a	66.7 a	53.3 d	46.7 b	76.7 cd	70.0 c	73.3 c	30.0 g	83.3 ab	70.0 b
	NIS	0.25 % v/v												
10	Grasp	2 oz/a		95.0 a	80.0 a	66.7 a	80.0 c	86.7 a	95.0 a	95.0 a	95.0 a	78.3 bc	93.3 a	95.0 a
	Londax	0.75 oz/a												
	COC	2.5 % v/v												
11	Permit	1.0 oz/a		95.0 a	80.0 a	66.7 a	53.3 d	46.7 b	78.3 cd	95.0 a	95.0 a	73.3 cd	56.7 c	43.3 c
	NIS	0.25 % v/v												
12	Permit	0.5 oz/a		95.0 a	80.0 a	66.7 a	53.3 d	43.3 b	73.3 d	93.3 a	95.0 a	56.7 f	53.3 c	30.0 d
	NIS	0.25 % v/v												
13	Grasp	2 oz/a		95.0 a	80.0 a	66.7 a	80.0 c	90.0 a	95.0 a	95.0 a	95.0 a	83.3 ab	93.3 a	90.0 a
	Permit	0.5 oz/a												
	COC	2.5 % v/v												
14	Regiment	0.5 oz/a		95.0 a	80.0 a	66.7 a	88.3 ab	90.0 a	95.0 a	93.3 a	95.0 a	83.3 ab	93.3 a	95.0 a
	Permit	0.5 oz/a												
	DYNE-AMIC	0.5 % v/v												
15	Grasp	2 oz/a		95.0 a	80.0 a	66.7 a	86.7 abc	86.7 a	95.0 a	93.3 a	95.0 a	90.0 a	93.3 a	95.0 a
	Londax	0.75 oz/a												
	Permit	0.25 oz/a												
	COC	2.5 % v/v												
16	Regiment	0.5 oz/a		95.0 a	80.0 a	66.7 a	90.0 a	90.0 a	93.3 a	91.7 a	95.0 a	90.0 a	93.3 a	95.0 a
	Londax	0.75 oz/a												
	Permit	0.25 oz/a												
	COC	2.5 % v/v												
LSD (P=.05)	0.00	0.00	0.00	5.15	8.65	5.95	5.80	7.15	6.35	7.81	10.95			
Standard Deviation	0.00	0.00	0.00	3.08	5.17	3.56	3.47	4.27	3.80	4.67	6.55			
CV	0.0	0.0	0.0	4.21	7.23	4.29	3.83	4.79	5.96	5.78	8.69			
Bartlett's X2	0.0	0.0	0.146	1.12	0.54	3.085	6.621	3.59	1.104	4.634	8.976			
P(Bartlett's X2)	.	.	1.00	0.993	1.00	0.929	0.357	0.826	0.998	0.982	0.344			
Replicate F	0.000	0.000	0.000	12.125	1.088	1.086	0.573	3.115	5.579	1.389	0.583			
Replicate Prob(F)	1.0000	1.0000	1.0000	0.0002	0.3506	0.3512	0.5702	0.0601	0.0091	0.2659	0.5647			
Treatment F	0.000	0.000	0.000	85.365	45.089	44.884	14.240	11.108	83.995	26.264	25.854			
Treatment Prob(F)	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001			

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)  
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.