

# LSU Northeast Research Station

## Broadleaf weed control in drill-seeded rice with Grasp and Londax.

Trial ID: SJ06R038  
Location:

Protocol ID: SJ06R038  
Study Director:  
Investigator: Bill Williams

### General Trial Information

Investigator: Bill Williams

### Crop Description

**Crop 1:** ORYSA Oryza sativa Common rice  
**Variety:** Trainasse **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 **Harvest Equipment:** Small plot combine  
**Harvested Length, Unit:** 12 FT  
**% 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

### 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:** Factorial

### Maintenance

No.	Date	Maintenance Treatment Name	Rate	Rate Unit
1.	6/27/06	Prilled urea	300	LB/A

### Soil Description

**Description Name:** Bay 4 - Northend  
**% 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

# LSU Northeast Research Station

	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	B
Application Date:	5/25/06	6/12/06
Time of Day:	8:30	10:00
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Application Placement:	BANSOI	BANFOL
Air Temperature, Unit:	72 F	88 F
% Relative Humidity:	68	48
Wind Velocity, Unit:	3 MPH	4 MPH
Wind Direction:	N	E
Soil Temperature, Unit:	81 F	86 F
Soil Moisture:	DRY	DRY
% Cloud Cover:	30	10

### Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ORYSA BRIC	ORYSA BRIC
Stage Scale Used:	BBCH	BBCH
Stage Majority, Percent:	N/A	2-3 LF 100
Height, Unit:		3 IN
Height Minimum, Maximum:		2 4

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## Pest Stage At Each Application

	A	B
<b>Pest 1 Code, Disc., Scale:</b>	ECHCG W	ECHCG W
<b>Stage Majority, Percent:</b>	N/A	3-4 LF 100
<b>Height, Unit:</b>		1.5 IN
<b>Height Minimum, Maximum:</b>		1 2
<b>Pest 2 Code, Disc., Scale:</b>	LEFPA W	LEFPA W
<b>Stage Majority, Percent:</b>	N/A	3 100
<b>Height, Unit:</b>		1 IN
<b>Height Minimum, Maximum:</b>		1 1
<b>Pest 3 Code, Disc., Scale:</b>	SEBEX W	SEBEX W
<b>Stage Majority, Percent:</b>	N/A	6 LF 100
<b>Height, Unit:</b>		3 IN
<b>Height Minimum, Maximum:</b>		3 4
<b>Pest 4 Code, Disc., Scale:</b>	CNPPA W	CNPPA W
<b>Stage Majority, Percent:</b>	N/A	4 LF 100
<b>Height, Unit:</b>		4 IN
<b>Height Minimum, Maximum:</b>		4 4
<b>Pest 5 Code, Disc., Scale:</b>	CYPIR W	CYPIR W
<b>Stage Majority, Percent:</b>	N/A	1-2 LF 100
<b>Height, Unit:</b>		1 IN
<b>Height Minimum, Maximum:</b>		1 1

## Application Equipment

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

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Pest Code	SEBEX	SEBEX	SEBEX
Part Rated	PLATOT P	PLATOT P	PLATOT P
Rating Date	6/20/06	6/26/06	7/11/06
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%
Days After First/Last Applic.	26 8	32 14	47 29
Trt-Eval Interval	8 DA-B	14 DA-B	29 DA-B
Trt No.	Treatment Name	Rate	Unit
1	Command	1.33	pt/a
	Grasp	1.4	oz/a
	Londax	0.375	oz/a
	Dyne-A-Pak	1.5	% v/v
2	Command	1.33	pt/a
	Grasp	1.4	oz/a
	Londax	0.5	oz/a
	Dyne-A-Pak	1.5	% v/v
3	Command	1.33	pt/a
	Grasp	1.4	oz/a
	Londax	0.75	oz/a
	Dyne-A-Pak	1.5	% v/v
4	Command	1.33	pt/a
	Grasp	1.8	oz/a
	Londax	0.375	oz/a
	Dyne-A-Pak	1.5	% v/v
5	Command	1.33	pt/a
	Grasp	1.8	oz/a
	Londax	0.5	oz/a
	Dyne-A-Pak	1.5	% v/v
6	Command	1.33	pt/a
	Grasp	1.8	oz/a
	Londax	0.75	oz/a
	Dyne-A-Pak	1.5	% v/v
7	Command	1.33	pt/a
	Grasp	2.3	oz/a
	Londax	0.375	oz/a
	Dyne-A-Pak	1.5	% v/v
8	Command	1.33	pt/a
	Grasp	2.3	oz/a
	Londax	0.5	oz/a
	Dyne-A-Pak	1.5	% v/v
9	Command	1.33	pt/a
	Grasp	2.3	oz/a
	Londax	0.75	oz/a
	Dyne-A-Pak	1.5	% v/v
10	Command	1.33	pt/a
LSD (P=.05)	2.61	4.61	7.00
Standard Deviation	1.52	2.69	4.08
CV	1.8	3.18	4.87
Bartlett's X2	0.0	2.585	2.244
P(Bartlett's X2)	1.00	0.275	0.523
Replicate F	9.000	1.385	5.000
Replicate Prob(F)	0.0020	0.2758	0.0188
Treatment F	1147.840	367.962	157.117
Treatment Prob(F)	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.