

# LSU Northeast Research Station

Amazon sprangletop control with combinations of Clincher and Grasp.

Trial ID: SJ06R027  
Location:

Protocol ID: SJ06R027  
Study Director:  
Investigator: Bill Williams

## General Trial Information

Investigator: Bill Williams

## Crop Description

**Crop 1:** ORYSA Oryza sativa Common rice  
**Variety:** Cheniere  
**BBCH Scale:** BRIC **Planting Date:** 5/3/06  
**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:** 5/13/06  
**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:** COMDI **Commelina diffusa**  
**Common Name:** Spreading dayflower  
**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:** Randomized Complete Block

## Maintenance

No.	Date	Maintenance Treatment Name	Rate	Rate Unit
1.	6/7/06	Prilled Urea	300	lb/A

## Soil Description

**Description Name:** Bay 3 - North End  
**% Sand:** 26 **% OM:** 2.23 **Texture:** Clay  
**% Silt:** 32 **pH:** 7.98 **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.	5/5/06	8:00 pm	1.49	In	Rain	1	Hou
2.	5/5/06	4:00 am				4	Hou
3.	5/6/06	8:00 am	0.31	In	Rain	3.5	Hou
4.	5/7/06	11:00 a	1.06	In	Rain	4	Hou
5.	5/7/06	12:00 p				2	Hou
6.	5/9/06	7:00 pm	0.39	In	Rain	0.75	Hou
7.	5/11/06	7:15 pm	0.2	In	Rain	0.5	Hou
8.	5/15/06	10:00 a	0.21	In	Rain	1	Hou
9.	5/19/06				Flush		
10.	5/27/06				Flush		
11.	5/28/06	5:00 pm	0.18	In	Rain	1	Hou
12.	5/29/06	2:30 pm	0.46	In	Rain	2.5	Hou
13.	5/30/06	1:30 pm	0.79	In	Rain	3	Hou
14.	6/2/06	6:30 pm	0.03	In	Rain	1	Hou
15.	6/7/06				Fertilize		
16.	6/7/06				Perment Flood		
17.	6/17/06	7:00 pm	0.03	In	Rain	1	Hou
18.	6/18/06	10:00 p	0.01	In	Rain	1	Hou
19.	6/19/06	10:00 p	0.05	In	Rain	1	Hou
20.	6/20/06	2:30 pm	0.19	In	Rain	1	Hou
21.	6/24/06	9:00 pm	0.07	In	Rain	1	Hou
22.	7/3/06	1:00 pm	0.07	In	Rain	0.5	Hou
23.	7/4/06	3:00 pm	0.69	In	Rain	1.5	Hou
24.	7/4/06	7:00 am				1	Hou
25.	7/5/06	12:00 a	1.25	In	Rain	0.75	Hou
26.	7/5/06	6:00pm				1.5	Hou
27.	7/6/06	6:00 pm	0.35	In	Rain	3.5	Hou
28.	7/11/06	2:00 pm	0.45	In	Rain	2	Hou

### Application Description

	A	B	C	D
Application Date:	5/15/06	5/31/06	6/2/06	6/15/06
Time of Day:	9:00	11:00	10:00	11:00
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	VEPOST	MPOST	3DPF	POTF
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Air Temperature, Unit:	66 F	92 F	90 F	92 F
% Relative Humidity:	50	48	54	48
Wind Velocity, Unit:	4 MPH	2 MPH	0 MPH	3 MPH
Wind Direction:	S	S		S
Soil Temperature, Unit:	70 F	92 F	89 F	94 F
Soil Moisture:	DAMP	DRY	DAMP	DAMP
% Cloud Cover:	30	100	100	0

### Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	ORYSA BRIC	ORYSA BRIC	ORYSA BRIC	ORYSA BRIC
Stage Scale Used:	BBCH	BBCH	BBCH	BBCH
Stage Majority, Percent:	1 LF 100	4-5 LF 100	5LF 1T 100	5LF 1-2T 100
Height, Unit:	1 IN	5 IN	6 IN	15 IN
Height Minimum, Maximum:	1 1	4 6	5 7	15 15

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## Pest Stage At Each Application

	A	B	C	D
<b>Pest 1 Code, Disc., Scale:</b>	ECHCG W	ECHCG W	ECHCG W	ECHCG W
<b>Stage Majority, Percent:</b>	2 LF 100	4-5 LF 100	5LF 1T 100	8-11 T 100
<b>Height, Unit:</b>	1.5 IN	4 IN	7 IN	16.5 IN
<b>Height Minimum, Maximum:</b>	1 2	3 5	6 8	16 17
<b>Pest 2 Code, Disc., Scale:</b>	LEFPA W	LEFPA W	LEFPA W	LEFPA W
<b>Stage Majority, Percent:</b>	N/A	3-4 LF 100	4-5 LF 100	2-4 T 100
<b>Height, Unit:</b>		2 IN	3 IN	14.5 IN
<b>Height Minimum, Maximum:</b>		1 3	2 4	14 15
<b>Pest 3 Code, Disc., Scale:</b>	SEBEX W	SEBEX W	SEBEX W	SEBEX W
<b>Stage Majority, Percent:</b>	N/A			7-8 LF 100
<b>Height, Unit:</b>		4 IN		10 IN
<b>Height Minimum, Maximum:</b>		3 5		10 10
<b>Pest 4 Code, Disc., Scale:</b>	COMDI W	COMDI W	COMDI W	COMDI W
<b>Stage Majority, Percent:</b>	N/A	3-4 LF 100		
<b>Height, Unit:</b>		1.5 IN	5 IN	
<b>Height Minimum, Maximum:</b>		1 2	4 6	
<b>Pest 5 Code, Disc., Scale:</b>	CYPIR W	CYPIR W	CYPIR W	CYPIR W
<b>Stage Majority, Percent:</b>	N/A	6 LF 100		
<b>Height, Unit:</b>		5.5 IN	10 IN	
<b>Height Minimum, Maximum:</b>		5 6	8 12	

## Application Equipment

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



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Pest Code	LEFPA	LEFPA	LEFPA	LEFPA	LEFPA	LEFPA	ORYSA	ORYSA			
Crop Code							BRIC	BRIC			
BBCH Scale							GRAIN C	GRAIN C			
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P					
Rating Date	6/6/06	6/15/06	6/20/06	6/26/06	7/3/06	7/11/06	9/13/06	9/13/06			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	YIELD	YIELD			
Rating Unit	%	%	%	%	%	%	lb/plt	BU			
Days After First/Last Applic.	22 4	31 0	36 5	42 11	49 18	57 26	121 90	121 90			
Trt-Eval Interval	4 DA-C	13 DA-C	5 DA-D	11 DA-D	18 DA-D	26 DA-D					
Plant-Eval Interval	34 DP-1	43 DP-1	48 DP-1	54 DP-1	61 DP-1	69 DP-1	133 DP-1	133 DP-1			
ARM Action Codes								TY1			
Number of Decimals								0			
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7	8
9	Facet	0.5	lb ai/a	0.0 d	0.0 c	80.0 ab	86.7 a	88.3 a	70.0 b	8.03 b	121 b
	COC	1	% v/v								
	Regiment	0.4	oz/a								
	Dyne-A-Pak	1.5	% v/v								
	Clincher	15	oz/a								
	Grasp	2.3	oz/a								
	COC	1	qt/a								
10	Facet	0.5	lb ai/a	0.0 d	0.0 c	70.0 c	86.7 a	78.3 b	53.3 d	7.07 c	106 c
	COC	1	% v/v								
	Regiment	0.4	oz/a								
	Dyne-A-Pak	1.5	% v/v								
	Clincher	15	oz/a								
	Grasp	2.6	oz/a								
	COC	1	qt/a								
11	Facet	0.5	lb ai/a	0.0 d	0.0 c	56.7 d	53.3 c	63.3 c	0.0 e	4.57 e	69 e
	COC	1	% v/v								
	Regiment	0.4	oz/a								
	Dyne-A-Pak	1.5	% v/v								
	Grasp	2.6	oz/a								
	COC	1	qt/a								
12	nontreated			0.0 d	0.0 c	0.0 e	0.0 e	0.0 e	0.0 e	0.00 g	0 g
LSD (P=.05)		4.89		7.47	6.87	7.89	6.24	5.30	0.593	8.9	
Standard Deviation		2.89		4.41	4.06	4.66	3.68	3.13	0.350	5.3	
CV		13.32		19.84	7.79	8.83	7.35	7.93	5.82	5.82	
Bartlett's X2		0.0		1.62	1.083	0.461	1.57	1.855	17.349	17.348	
P(Bartlett's X2)		1.00		0.655	0.982	1.00	0.955	0.762	0.067	0.067	
Replicate F		1.000		1.000	1.644	3.581	5.577	0.923	1.594	1.596	
Replicate Prob(F)		0.3840		0.3840	0.2161	0.0450	0.0110	0.4123	0.2257	0.2253	
Treatment F		376.364		176.520	196.149	186.023	327.009	400.465	168.549	168.584	
Treatment Prob(F)		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.

### ARM Action Codes

TY1 = 15.03333\*[C7]