

## LSU Northeast Research Station

Evaluation of Stam SC for weed control in drill-seeded rice.

Trial ID: SJ05R004  
Location: Bay 5Study Dir.:  
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.	SEBEX Coffeebean	Sesbania exaltata

Crop 1: ORYSA RICE

Variety: Cocodrie

Planting Date: 5/5/05

Planting Method: DRILLED

Rate: 90 LB/A

Depth: 0.25 "

Row Spacing: 8 "

Spacing Within Row: 5 "

Seed Bed: MEDIUM

Soil Moisture: DRY

Emergence Date: 5/12/05

**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: 25.2 % OM: 2.07

Texture: CLAY

% Silt: 32.8 pH: 7.87

Soil Name: Sharkey clay

% Clay: 42 CEC: 21.9

Fert. Level: EXCELLENT

**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

## LSU Northeast Research Station

Overall Moisture Conditions: Dry

Closest Weather Station: Northeast Research Station

Distance: 0.25 Unit: mi

## APPLICATION DESCRIPTION

A

Application Date: 5/27/05  
 Time of Day: 11:00  
 Application Method: SPRAY  
 Application Timing: 3-4 lfw  
 Applic. Placement: BROFOL  
 Air Temp., Unit: 85 F  
 % Relative Humidity: 33  
 Wind Velocity, Unit: 2.5 E  
 Soil Temp., Unit: 94 F  
 Soil Moisture: Moist  
 % Cloud Cover: 0

## CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: ORYSA 3-4 lf  
 Stage Scale: 4 in

## WEED STAGE AT EACH APPLICATION

A

Weed 1 Code, Stage: ECHCG 3-4 lf  
 Stage Scale: 3 in  
 Weed 2 Code, Stage: SEBEX 3-4 lf  
 Stage Scale: 3 in

## APPLICATION EQUIPMENT

A

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

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Trial ID: SJ05R004  
 Location: Bay 5

Study Dir.:  
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Weed Code	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG
Crop Code					
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	6/4/05	6/9/05	6/24/05	7/12/05	8/10/05
Trt-Eval Interval	8 DA-A	13 DA-A	28 DA-A	46 DA-A	75 DA-A
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Rate	Rate Unit	Grow Stg	1	2	3	4	5	
1	Stam M4	4.0	QT/A	3-4 lfw	82	bc 57	de 50	g 50	f 50	e
2	Stam 4SC	4.0	QT/A	3-4 lfw	82	bc 60	cd 50	g 50	f 50	e
	COC	2.5	% V/V	3-4 lfw						
3	Stam 4SC	4.0	QT/A	3-4 lfw	83	bc 68	c 50	g 50	f 50	e
	COC	1.25	% V/V	3-4 lfw						
4	Super Wham	4	QT/A	3-4 lfw	83	bc 82	b 60	f 50	f 50	e
	COC	1.25	% V/V	3-4 lfw						
5	Stam 4SC	4.0	QT/A	3-4 lfw	93	a 88	ab 87	bc 87	bc 87	c
	Facet	8	OZ/A	3-4 lfw						
	COC	1.25	% V/V	3-4 lfw						
6	Super Wham	4	QT/A	3-4 lfw	93	a 92	a 90	abc 90	abc 87	c
	Facet	8	OZ/A	3-4 lfw						
	COC	1.25	% V/V	3-4 lfw						
7	Stam 4SC	4.0	QT/A	3-4 lfw	88	ab 83	ab 78	de 78	d 77	d
	Granstand	0.66	PT/A	3-4 lfw						
	Permit	0.5	OZ/A	3-4 lfw						
	COC	1.25	% V/V	3-4 lfw						
8	Super Wham	4	QT/A	3-4 lfw	88	ab 82	b 87	bc 87	bc 85	c
	Granstand	0.66	PT/A	3-4 lfw						
	Permit	0.5	OZ/A	3-4 lfw						
	COC	1.25	% V/V	3-4 lfw						
9	Stam 4SC	4.0	QT/A	3-4 lfw	93	a 90	ab 95	a 95	a 95	a
	Grasp	2	OZ/A	3-4 lfw						
	COC	1.25	% V/V	3-4 lfw						
10	Super Wham	4	QT/A	3-4 lfw	92	a 90	ab 92	abc 92	ab 88	bc
	Grasp	2	OZ/A	3-4 lfw						
	COC	1.25	% V/V	3-4 lfw						
11	Stam 4SC	4.0	QT/A	3-4 lfw	80	c 57	de 50	g 50	f 47	e
	Aim	1.6	OZ/A	3-4 lfw						
	NIS	0.25	% V/V	3-4 lfw						

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Weed Code	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG
Crop Code					
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	6/4/05	6/9/05	6/24/05	7/12/05	8/10/05
Trt-Eval Interval	8 DA-A	13 DA-A	28 DA-A	46 DA-A	75 DA-A
ARM Action Codes					
# Subsamples, Dec.					

Trt	Treatment	Rate	Unit	Grow	Stg	1	2	3	4	5				
12	Super Wham	4	QT/A	3-4 lfw	82	bc	57	de	50	g	50	f	47	e
	Aim	1.6	OZ/A	3-4 lfw										
	NIS	0.25	% V/V	3-4 lfw										
13	Stam M4	4.0	QT/A	3-4 lfw	83	bc	57	de	50	g	50	f	47	e
	Granstand	0.66	PT/A	3-4 lfw										
14	Stam 4SC	4.0	QT/A	3-4 lfw	88	ab	82	b	50	g	50	f	47	e
	Granstand	0.66	PT/A	3-4 lfw										
	COC	1.25	% V/V	3-4 lfw										
15	Super Wham	4	QT/A	3-4 lfw	80	c	83	ab	77	e	50	f	47	e
	Granstand	0.66	PT/A	3-4 lfw										
	COC	1.25	% V/V	3-4 lfw										
16	Untreated				0	d	0	f	0	h	0	g	0	f
17	Stam M4	4.0	QT/A	3-4 lfw	92	a	90	ab	85	cd	85	c	83	c
	Facet	8	OZ/A	3-4 lfw										
18	Stam M4	4.0	QT/A	3-4 lfw	88	ab	50	e	50	g	57	e	50	e
	Granstand	0.66	PT/A	3-4 lfw										
	Permit	0.5	OZ/A	3-4 lfw										
19	Stam M4	4.0	QT/A	3-4 lfw	95	a	92	a	93	ab	93	a	93	ab
	Grasp	2	OZ/A	3-4 lfw										
20	Stam M4	4.0	QT/A	3-4 lfw	88	ab	53	de	50	g	50	f	50	e
	Aim	1.6	OZ/A	3-4 lfw										
LSD (P=.05)					6.7	8.7	8.1	5.4	6.6					
Bartlett's X2					10.371	8.289	7.088	1.857	2.99					
P(Bartlett's X2)					0.847	0.94	0.313	0.869	0.991					

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.

## LSU Northeast Research Station

Weed Code	ECHCG
Crop Code	ORYSA ORYSA
Part Rated	GRAIN C PLATOT P
Rating Data Type	lb/plt YIELD
Rating Unit	11% Mst BU
Rating Date	9/7/05 6/4/05
Trt-Eval Interval	103 DA-A 8 DA-A
ARM Action Codes	TY1
# Subsamples, Dec.	0

Trt No.	Treatment Name	Rate	Rate Unit	Grow Stg	6	7		
1	Stam M4	4.0	QT/A	3-4 lfw	4	g	62	g
2	Stam 4SC	4.0	QT/A	3-4 lfw	4	g	60	g
	COC	2.5	% V/V	3-4 lfw				
3	Stam 4SC	4.0	QT/A	3-4 lfw	4	g	64	g
	COC	1.25	% V/V	3-4 lfw				
4	Super Wham	4	QT/A	3-4 lfw	6	f	94	f
	COC	1.25	% V/V	3-4 lfw				
5	Stam 4SC	4.0	QT/A	3-4 lfw	9	c	142	c
	Facet	8	OZ/A	3-4 lfw				
	COC	1.25	% V/V	3-4 lfw				
6	Super Wham	4	QT/A	3-4 lfw	10	ab	164	ab
	Facet	8	OZ/A	3-4 lfw				
	COC	1.25	% V/V	3-4 lfw				
7	Stam 4SC	4.0	QT/A	3-4 lfw	7	e	118	e
	Granstand	0.66	PT/A	3-4 lfw				
	Permit	0.5	OZ/A	3-4 lfw				
	COC	1.25	% V/V	3-4 lfw				
8	Super Wham	4	QT/A	3-4 lfw	9	c	144	c
	Granstand	0.66	PT/A	3-4 lfw				
	Permit	0.5	OZ/A	3-4 lfw				
	COC	1.25	% V/V	3-4 lfw				
9	Stam 4SC	4.0	QT/A	3-4 lfw	10	b	157	b
	Grasp	2	OZ/A	3-4 lfw				
	COC	1.25	% V/V	3-4 lfw				
10	Super Wham	4	QT/A	3-4 lfw	11	a	172	a
	Grasp	2	OZ/A	3-4 lfw				
	COC	1.25	% V/V	3-4 lfw				
11	Stam 4SC	4.0	QT/A	3-4 lfw	4	g	66	g
	Aim	1.6	OZ/A	3-4 lfw				
	NIS	0.25	% V/V	3-4 lfw				
12	Super Wham	4	QT/A	3-4 lfw	4	g	65	g
	Aim	1.6	OZ/A	3-4 lfw				
	NIS	0.25	% V/V	3-4 lfw				
13	Stam M4	4.0	QT/A	3-4 lfw	4	g	62	g
	Granstand	0.66	PT/A	3-4 lfw				

## LSU Northeast Research Station

Weed Code		ECHCG
Crop Code	ORYSA	ORYSA
Part Rated	GRAIN C	PLATOT P
Rating Data Type	lb/plt	YIELD
Rating Unit	11% Mst	BU
Rating Date	9/7/05	6/4/05
Trt-Eval Interval	103 DA-A	8 DA-A
ARM Action Codes		TY1
# Subsamples, Dec.		0

Trt	Treatment	Rate	Unit	Grow	Stg	6	7		
14	Stam 4SC	4.0	QT/A	3-4 lfw	6	f	91	f	
	Granstand	0.66	PT/A	3-4 lfw					
	COC	1.25	% V/V	3-4 lfw					
15	Super Wham	4	QT/A	3-4 lfw	6	f	97	f	
	Granstand	0.66	PT/A	3-4 lfw					
	COC	1.25	% V/V	3-4 lfw					
16	Untreated				0	h	0	h	
17	Stam M4	4.0	QT/A	3-4 lfw	8	d	129	d	
	Facet	8	OZ/A	3-4 lfw					
18	Stam M4	4.0	QT/A	3-4 lfw	6	f	101	f	
	Granstand	0.66	PT/A	3-4 lfw					
	Permit	0.5	OZ/A	3-4 lfw					
19	Stam M4	4.0	QT/A	3-4 lfw	9	c	142	c	
	Grasp	2	OZ/A	3-4 lfw					
20	Stam M4	4.0	QT/A	3-4 lfw	7	e	113	e	
	Aim	1.6	OZ/A	3-4 lfw					

LSD (P=.05)	0.6	10.2
Bartlett's X2	13.971	13.972
P(Bartlett's X2)	0.731	0.731

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.

Column 7: TY1 = 16.13333\*[6]