

## LSU Northeast Research Station

Evaluation of Clincher and Grasp for post-flood weed control.

Trial ID: SJ05R008  
Location:Study 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
3.	COMDI Dayflower, spreading	Commelina diffusa
4.	CNPPA Texasweed	Caperonia palustris
5.	CYPCP Annual sedge	Cyperus compressus

Crop 1: ORYSA RICE

Variety: Cypress

Planting Date: 5/16/05

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: 5/25/05

**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: FACTORIAL

**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

**MOISTURE CONDITIONS**

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

24. 8/22/05 9:00 PM 0.05 in Rainfall

0

na

## LSU Northeast Research Station

Overall Moisture Conditions: NORMAL

Closest Weather Station: Northeast Research Station

Distance: 0.25 Unit: MI

## APPLICATION DESCRIPTION

	A	B
Application Date:	5/26/05	6/23/05
Time of Day:	11:00	11:00
Application Method:	Spray	Spray
Application Timing:	1-2 lf	1WAF
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	85 F	92 F
% Relative Humidity:	33	62
Wind Velocity, Unit:	3 E	0 na
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	94 F	91 F
Soil Moisture:	MOIST	FLOODED
% Cloud Cover:	0	40

## CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ORYSA 2 lf	ORYSA 4-5 T
Stage Scale:	2 in	14 in

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	ECHCG 2-3 lf	ECHCG 2 T
Stage Scale:	2 in	6-8 in
Weed 2 Code, Stage:	SEBEX 1 lf	SEBEX n/a
Stage Scale:	1 in	16 in
Weed 3 Code, Stage:	COMDI 1 lf	COMDI 6-8 lf
Stage Scale:	1 in	8 in
Weed 4 Code, Stage:	CNPPA 1-2 lf	CNPPA n/a
Stage Scale:	1 in	13 in
Weed 5 Code, Stage:	CYPCP n/a	CYPCP n/a
Stage Scale:	n/a	10 in

## APPLICATION EQUIPMENT

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



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Weed Code	ECHCG	ECHCG	ECHCG	ECHCG	LEFPA			
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%			
Rating Date	7/7/05	7/14/05	7/21/05	8/10/05	7/7/05			
Trt-Eval Interval	14 DA-B	21 DA-B	28 DA-B	48 DA-B	14 DA-B			
Trt Treatment	Rate	Grow	1	2	3	4	5	
No. Name	Rate Unit	Stg	1	2	3	4	5	
8 Facet	8 OZ/A	1-2 lf	90	a 87	ab 80	b 80	b 67	c
COC	1.25 % V/V	1-2 lf						
Clincher	15 OZ/A	1 WAF						
Grasp	2.6 OZ/A	1 WAF						
COC	2.5 % V/V	1 WAF						
9 Facet	8 OZ/A	1-2 lf	92	a 88	a 90	a 90	a 53	e
COC	1.25 % V/V	1-2 lf						
Clincher	15 OZ/A	1 WAF						
Grasp	2.9 OZ/A	1 WAF						
COC	2.5 % V/V	1 WAF						
10 Facet	8 OZ/A	1-2 lf	83	bc 83	ab 67	de 67	c 90	a
COC	1.25 % V/V	1-2 lf						
Clincher	15 OZ/A	1 WAF						
Grasp	0 OZ/A	1 WAF						
COC	2.5 % V/V	1 WAF						
11 Facet	8 OZ/A	1-2 lf	73	d 50	e 30	h 0	g 0	f
COC	1.25 % V/V	1-2 lf						
Clincher	0 OZ/A	1 WAF						
Grasp	2.0 OZ/A	1 WAF						
COC	2.5 % V/V	1 WAF						
12 Facet	8 OZ/A	1-2 lf	70	d 73	cd 63	e 63	cd 0	f
COC	1.25 % V/V	1-2 lf						
Clincher	0 OZ/A	1 WAF						
Grasp	2.3 OZ/A	1 WAF						
COC	2.5 % V/V	1 WAF						
13 Facet	8 OZ/A	1-2 lf	87	ab 87	ab 80	b 77	b 0	f
COC	1.25 % V/V	1-2 lf						
Clincher	0 OZ/A	1 WAF						
Grasp	2.6 OZ/A	1 WAF						
COC	2.5 % V/V	1 WAF						
14 Facet	8 OZ/A	1-2 lf	88	ab 83	ab 80	b 77	b 0	f
COC	1.25 % V/V	1-2 lf						
Clincher	0 OZ/A	1 WAF						
Grasp	2.9 OZ/A	1 WAF						
COC	2.5 % V/V	1 WAF						

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Weed Code	ECHCG	ECHCG	ECHCG	ECHCG	LEFPA
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	7/7/05	7/14/05	7/21/05	8/10/05	7/7/05
Trt-Eval Interval	14 DA-B	21 DA-B	28 DA-B	48 DA-B	14 DA-B
Trt Treatment	Rate	Grow			
No. Name	Rate Unit	Stg	1	2	3
15 Facet	8 OZ/A	1-2 lf	0	e 0	f 0
COC	1.25 % V/V	1-2 lf			i 0
Clincher	0 OZ/A	1 WAF			j 0
Grasp	0 OZ/A	1 WAF			k 0
COC	2.5 % V/V	1 WAF			l 0
16 Untreated			0	e 0	f 0
LSD (P=.05)			6.4	7.8	6.7
Bartlett's X2			3.991	0.392	2.009
P(Bartlett's X2)			0.781	1.00	0.996

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				LEFPA	LEFPA	LEFPA	SEBEX	SEBEX		
Part Rated				PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P		
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit				%	%	%	%	%		
Rating Date				7/14/05	7/21/05	8/10/05	7/7/05	7/14/05		
Trt-Eval Interval				21 DA-B	28 DA-B	48 DA-B	14 DA-B	21 DA-B		
Trt No.	Treatment Name	Rate	Grow Unit	Stg	6	7	8	9	10	
1	Facet	8	OZ/A	1-2 lf	90	a 82	b 82	b 63	c 63	d
	COC	1.25	% V/V	1-2 lf						
	Clincher	13.5	OZ/A	1 WAF						
	Grasp	2.0	OZ/A	1 WAF						
	COC	2.5	% V/V	1 WAF						
2	Facet	8	OZ/A	1-2 lf	57	c 33	f 0	f 70	b 73	c
	COC	1.25	% V/V	1-2 lf						
	Clincher	13.5	OZ/A	1 WAF						
	Grasp	2.3	OZ/A	1 WAF						
	COC	2.5	% V/V	1 WAF						
3	Facet	8	OZ/A	1-2 lf	60	c 88	a 87	a 80	a 83	b
	COC	1.25	% V/V	1-2 lf						
	Clincher	13.5	OZ/A	1 WAF						
	Grasp	2.6	OZ/A	1 WAF						
	COC	2.5	% V/V	1 WAF						
4	Facet	8	OZ/A	1-2 lf	60	c 30	f 0	f 83	a 92	a
	COC	1.25	% V/V	1-2 lf						
	Clincher	13.5	OZ/A	1 WAF						
	Grasp	2.9	OZ/A	1 WAF						
	COC	2.5	% V/V	1 WAF						
5	Facet	8	OZ/A	1-2 lf	80	b 73	c 57	e 0	d 0	e
	COC	1.25	% V/V	1-2 lf						
	Clincher	13.5	OZ/A	1 WAF						
	Grasp	0	OZ/A	1 WAF						
	COC	2.5	% V/V	1 WAF						
6	Facet	8	OZ/A	1-2 lf	80	b 77	bc 70	c 63	c 63	d
	COC	1.25	% V/V	1-2 lf						
	Clincher	15	OZ/A	1 WAF						
	Grasp	2.0	OZ/A	1 WAF						
	COC	2.5	% V/V	1 WAF						
7	Facet	8	OZ/A	1-2 lf	57	c 67	d 63	d 70	b 73	c
	COC	1.25	% V/V	1-2 lf						
	Clincher	15	OZ/A	1 WAF						
	Grasp	2.3	OZ/A	1 WAF						
	COC	2.5	% V/V	1 WAF						

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Weed Code	LEFPA	LEFPA	LEFPA	SEBEX	SEBEX
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	7/14/05	7/21/05	8/10/05	7/7/05	7/14/05
Trt-Eval Interval	21 DA-B	28 DA-B	48 DA-B	14 DA-B	21 DA-B
Trt Treatment	Rate	Unit	Grow		
No. Name	Rate	Unit	Stg	6	7
8 Facet	8	OZ/A	1-2 lf	60	c 60
COC	1.25	% V/V	1-2 lf		e 53
Clincher	15	OZ/A	1 WAF		e 80
Grasp	2.6	OZ/A	1 WAF		a 83
COC	2.5	% V/V	1 WAF		b
9 Facet	8	OZ/A	1-2 lf	57	c 60
COC	1.25	% V/V	1-2 lf		e 57
Clincher	15	OZ/A	1 WAF		e 83
Grasp	2.9	OZ/A	1 WAF		a 92
COC	2.5	% V/V	1 WAF		a
10 Facet	8	OZ/A	1-2 lf	90	a 90
COC	1.25	% V/V	1-2 lf		a 90
Clincher	15	OZ/A	1 WAF		a 0
Grasp	0	OZ/A	1 WAF		d 0
COC	2.5	% V/V	1 WAF		e
11 Facet	8	OZ/A	1-2 lf	0	d 0
COC	1.25	% V/V	1-2 lf		g 0
Clincher	0	OZ/A	1 WAF		f 63
Grasp	2.0	OZ/A	1 WAF		c 63
COC	2.5	% V/V	1 WAF		d
12 Facet	8	OZ/A	1-2 lf	0	d 0
COC	1.25	% V/V	1-2 lf		g 0
Clincher	0	OZ/A	1 WAF		f 70
Grasp	2.3	OZ/A	1 WAF		b 73
COC	2.5	% V/V	1 WAF		c
13 Facet	8	OZ/A	1-2 lf	0	d 0
COC	1.25	% V/V	1-2 lf		g 0
Clincher	0	OZ/A	1 WAF		f 80
Grasp	2.6	OZ/A	1 WAF		a 83
COC	2.5	% V/V	1 WAF		b
14 Facet	8	OZ/A	1-2 lf	0	d 0
COC	1.25	% V/V	1-2 lf		g 0
Clincher	0	OZ/A	1 WAF		f 83
Grasp	2.9	OZ/A	1 WAF		a 92
COC	2.5	% V/V	1 WAF		a

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Weed Code	LEFPA	LEFPA	LEFPA	SEBEX	SEBEX
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	7/14/05	7/21/05	8/10/05	7/7/05	7/14/05
Trt-Eval Interval	21 DA-B	28 DA-B	48 DA-B	14 DA-B	21 DA-B
Trt Treatment	Rate	Grow			
No. Name	Rate Unit	Stg	6	7	8
15 Facet	8 OZ/A	1-2 lf	0	d 0	g 0
	COC 1.25 % V/V	1-2 lf			f 0
	Clincher 0 OZ/A	1 WAF			d 0
	Grasp 0 OZ/A	1 WAF			e
	COC 2.5 % V/V	1 WAF			
16 Untreated			0	d 0	g 0
				f 0	d 0
LSD (P=.05)			4.5	5.1	4.5
Bartlett's X2			0.057	1.973	1.973
P(Bartlett's X2)			0.996	0.853	0.853
				1.00	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	SEBEX	SEBEX
Part Rated	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL
Rating Unit	%	%
Rating Date	7/21/05	8/10/05
Trt-Eval Interval	28 DA-B	48 DA-B

Trt No.	Treatment Name	Rate	Unit	Grow Stg	11	12	
1	Facet	8	OZ/A	1-2 lf	73	c 70	f
	COC	1.25	% V/V	1-2 lf			
	Clincher	13.5	OZ/A	1 WAF			
	Grasp	2.0	OZ/A	1 WAF			
	COC	2.5	% V/V	1 WAF			
2	Facet	8	OZ/A	1-2 lf	83	b 77	de
	COC	1.25	% V/V	1-2 lf			
	Clincher	13.5	OZ/A	1 WAF			
	Grasp	2.3	OZ/A	1 WAF			
	COC	2.5	% V/V	1 WAF			
3	Facet	8	OZ/A	1-2 lf	90	a 90	a
	COC	1.25	% V/V	1-2 lf			
	Clincher	13.5	OZ/A	1 WAF			
	Grasp	2.6	OZ/A	1 WAF			
	COC	2.5	% V/V	1 WAF			
4	Facet	8	OZ/A	1-2 lf	90	a 90	a
	COC	1.25	% V/V	1-2 lf			
	Clincher	13.5	OZ/A	1 WAF			
	Grasp	2.9	OZ/A	1 WAF			
	COC	2.5	% V/V	1 WAF			
5	Facet	8	OZ/A	1-2 lf	0	d 0	g
	COC	1.25	% V/V	1-2 lf			
	Clincher	13.5	OZ/A	1 WAF			
	Grasp	0	OZ/A	1 WAF			
	COC	2.5	% V/V	1 WAF			
6	Facet	8	OZ/A	1-2 lf	73	c 70	f
	COC	1.25	% V/V	1-2 lf			
	Clincher	15	OZ/A	1 WAF			
	Grasp	2.0	OZ/A	1 WAF			
	COC	2.5	% V/V	1 WAF			
7	Facet	8	OZ/A	1-2 lf	87	ab 80	cd
	COC	1.25	% V/V	1-2 lf			
	Clincher	15	OZ/A	1 WAF			
	Grasp	2.3	OZ/A	1 WAF			
	COC	2.5	% V/V	1 WAF			

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Weed Code	SEBEX	SEBEX
Part Rated	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL
Rating Unit	%	%
Rating Date	7/21/05	8/10/05
Trt-Eval Interval	28 DA-B	48 DA-B

Trt	Treatment	Rate	Unit	Grow	Stg	11	12	
8	Facet	8	OZ/A	1-2 lf	88	ab	83	bc
	COC	1.25	% V/V	1-2 lf				
	Clincher	15	OZ/A	1 WAF				
	Grasp	2.6	OZ/A	1 WAF				
	COC	2.5	% V/V	1 WAF				
9	Facet	8	OZ/A	1-2 lf	87	ab	85	b
	COC	1.25	% V/V	1-2 lf				
	Clincher	15	OZ/A	1 WAF				
	Grasp	2.9	OZ/A	1 WAF				
	COC	2.5	% V/V	1 WAF				
10	Facet	8	OZ/A	1-2 lf	0	d	0	g
	COC	1.25	% V/V	1-2 lf				
	Clincher	15	OZ/A	1 WAF				
	Grasp	0	OZ/A	1 WAF				
	COC	2.5	% V/V	1 WAF				
11	Facet	8	OZ/A	1-2 lf	77	c	73	ef
	COC	1.25	% V/V	1-2 lf				
	Clincher	0	OZ/A	1 WAF				
	Grasp	2.0	OZ/A	1 WAF				
	COC	2.5	% V/V	1 WAF				
12	Facet	8	OZ/A	1-2 lf	83	b	83	bc
	COC	1.25	% V/V	1-2 lf				
	Clincher	0	OZ/A	1 WAF				
	Grasp	2.3	OZ/A	1 WAF				
	COC	2.5	% V/V	1 WAF				
13	Facet	8	OZ/A	1-2 lf	88	ab	92	a
	COC	1.25	% V/V	1-2 lf				
	Clincher	0	OZ/A	1 WAF				
	Grasp	2.6	OZ/A	1 WAF				
	COC	2.5	% V/V	1 WAF				
14	Facet	8	OZ/A	1-2 lf	90	a	90	a
	COC	1.25	% V/V	1-2 lf				
	Clincher	0	OZ/A	1 WAF				
	Grasp	2.9	OZ/A	1 WAF				
	COC	2.5	% V/V	1 WAF				

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Weed Code	SEBEX	SEBEX
Part Rated	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL
Rating Unit	%	%
Rating Date	7/21/05	8/10/05
Trt-Eval Interval	28 DA-B	48 DA-B

Trt	Treatment	Rate	Unit	Grow	Stg	11	12
15	Facet	8	OZ/A	1-2 lf	0	d	0 g
	COC	1.25	% V/V	1-2 lf			
	Clincher	0	OZ/A	1 WAF			
	Grasp	0	OZ/A	1 WAF			
	COC	2.5	% V/V	1 WAF			
16	Untreated				0	d	0 g
LSD (P=.05)					6.3		4.3
Bartlett's X2					2.617		1.869
P(Bartlett's X2)					0.956		0.867

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.