

# LSU Northeast Research Station

## Effect of adjuvant class on annual grass control with Clincher.

Trial ID: SJ07R009                      Protocol ID: SJ07R009  
 Location:                                  Study Director:  
    Investigator: Bill Williams

### General Trial Information

**Investigator:** Bill Williams

### Crop Description

**Crop 1:** ORYSA Oryza sativa    Common rice  
**Variety:** Cocodrie  
**BBCH Scale:** BRIC    **Planting Date:** 9/May/07  
**Planting Method:** DRILLED    **Rate, Unit:** 100                      LB/A  
**Depth, Unit:** 1                      IN  
**Row Spacing, Unit:** 8                      IN  
**Seed Bed:** MEDIUM  
**Soil Moisture:** DRY  
  
**Harvest Equipment:** Small plot combine  
**Harvested Width, Unit:** 5                      FT                      **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:** SEBEX    Sesbania exaltata  
    **Common Name:** Coffeebean  
  
**Pest 3 Type:** W    **Code:** CYPES    Cyperus esculentus  
    **Common Name:** Yellow nutsedge

### Site and Design

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

### Soil Description

**Description Name:** Sharkey Clay  
**% 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 and Weather Conditions

**Overall Moisture Conditions:** Dry  
**Closest Weather Station:** Northeast Research Station                      **Distance:** 0.5                      **Unit:** MI

	Date	Amount	Unit	Type
1.	2/May/07	0.04	IN	
2.	3/May/07	1.24	IN	
3.	14/May/07			FLUSH
4.	15/May/07	0.02	IN	
5.	16/May/07	0.01	IN	

6. 17/May/07 0.01 IN  
 7. 21/May/07 FLUSH  
 8. 3/Jun/07 0.02 IN  
 9. 12/Jun/07 FERTILIZE - 300# prilled urea  
 10. 12/Jun/07 FLOOD  
 11. 16/Jun/07 0.01 IN  
 12. 18/Jun/07 0.02 IN  
 13. 19/Jun/07 0.4 IN  
 14. 2/Jul/07 0.3 IN  
 15. 3/Jul/07 0.06 IN  
 16. 4/Jul/07 1.14 IN  
 17. 5/Jul/07 0.31 IN  
 18. 6/Jul/07 0.27 IN  
 19. 7/Jul/07 1.39 IN  
 20. 9/Jul/07 0.36 IN  
 21. 10/Jul/07 0.01 IN  
 22. 11/Jul/07 0.27 IN  
 23. 13/Jul/07 0.3 IN  
 24. 14/Jul/07 1.96 IN  
 25. 15/Jul/07 2.8 IN  
 26. 17/Jul/07 1.56 IN  
 27. 20/Jul/07 0.93 IN  
 28. 21/Jul/07 0.1 IN  
 29. 22/Jul/07 0.01 IN  
 30. 30/Jul/07 2.35 IN

**Application Description**

**A**

**Application Date:** 9/Jun/07  
**Application Method:** SPRAY  
**Application Timing:** 4-5 LF  
**Application Placement:** BROFOL  
**Air Temperature, Unit:** 98 F  
**% Relative Humidity:** 51  
**Wind Velocity, Unit:** 4 MPH  
**Wind Direction:** W  
**Soil Temperature, Unit:** 90 F

**Crop Stage At Each Application**

**A**

**Crop 1 Code, BBCH Scale:** ORYSA BRIC  
**Stage Scale Used:** 5 LF  
**Stage Majority, Percent:** 6"  
**Stage Minimum, Percent:** 7"

**Pest Stage At Each Application**

**A**

**Pest 1 Code, Disc., Scale:** ECHCG W  
**Stage Majority, Percent:** 1-2 T  
**Pest 2 Code, Disc., Scale:** SEBEX W  
**Stage Majority, Percent:** 6-8 LF  
**Stage Minimum, Percent:** 8"  
**Stage Maximum, Percent:** 10"  
**Pest 3 Code, Disc., Scale:** CYPES W  
**Stage Majority, Percent:** 8-10LF  
**Stage Minimum, Percent:** 8"  
**Stage Maximum, Percent:** 10"

**Application Equipment**

**A**

**Appl. Equipment:** Backpack  
**Operating Pressure, Unit:** 31 PSI  
**Nozzle Type:** 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 GAL/AC
<b>Propellant:</b>	CO2

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Protocol ID: SJ07R009

Location:

Study Director:

Investigator: Bill Williams

Pest Type				
Pest Code		ECHCG	ECHCG	ECHCG
Crop Code				
Part Rated		PLATOT P	PLATOT P	PLATOT P
Rating Date		15/Jun/07	22/Jun/07	6/Jul/07
Rating Data Type		CONTROL	CONTROL	CONTROL
Rating Unit		%	%	%
Trt-Eval Interval		6 DA-A	13 DA-A	27 DA-A

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4
1	Clincher	13.5	OZ/A	4-5 lf	63	c	50	c0
	Liberate	0.25	% V/V	4-5 lf				c0
2	Clincher	13.5	OZ/A	4-5 lf	63	c	50	c0
	Activator 90	0.25	% V/V	4-5 lf				c0
3	Clincher	13.5	OZ/A	4-5 lf	53	d	30	d0
	LI 700	0.25	% V/V	4-5 lf				c0
4	Clincher	13.5	OZ/A	4-5 lf	50	d	80	a0
	Silwett	0.125	% V/V	4-5 lf				c0
5	Clincher	13.5	OZ/A	4-5 lf	73	abc	57	c53
	Herbimax	0.25	% V/V	4-5 lf				b30
6	Clincher	13.5	OZ/A	4-5 lf	67	bc	83	a53
	COC	1.5	% V/V	4-5 lf				b30
7	Clincher	13.5	OZ/A	4-5 lf	83	a	67	b53
	MSO + LeciTech	1.5	% V/V	4-5 lf				b30
8	Clincher	13.5	OZ/A	4-5 lf	73	abc	83	a53
	Quad 7	1.5	% V/V	4-5 lf				b30
9	Clincher	13.5	OZ/A	4-5 lf	75	ab	85	a53
	Phase	1.5	% V/V	4-5 lf				b53
10	Clincher	13.5	OZ/A	4-5 lf	80	a	83	a77
	Phase II	1.5	% V/V	4-5 lf				a77

LSD (P=.10)	7.0	6.3	4.6	3.6
Standard Deviation	5.0	4.5	3.3	2.5
CV	7.29	6.71	9.55	10.04
Grand Mean	68.17	66.83	34.33	25.0
Bartlett's X2	0.62	0.059	0.0	0.0
P(Bartlett's X2)	0.999	1.00	.	.

Replicate F	3.472	0.539	9.621	1.588
Replicate Prob(F)	0.0531	0.5924	0.0014	0.2316
Treatment F	14.416	55.525	257.966	321.471

Treatment Prob(F)

0.0001

0.0001

0.0001

0.0001

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Rating Date		15/Jun/07	22/Jun/07	6/Jul/07
Rating Data Type		CONTROL	CONTROL	CONTROL
Rating Unit		%	%	%
Trt-Eval Interval		6 DA-A	13 DA-A	27 DA-A
Trt Treatment	Rate	Growth		
No. Name	Rate Unit	Stage	1	2
			3	4

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.