

## LSU Northeast Research Station

Annual weed control in drill-seeded rice with postemergence applications of Command.

Trial ID: SJ05R021

Study Dir.:

Location: Bay 1

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.	CYPCP Annual sedge	Cyperus compressus

Crop 1: ORYSA RICE

Variety: Cocodrie

Planting Date: 5/5/05

Planting Method: DRILLED

Rate: 90 LB/A

Depth: 0.25 IN

Row Spacing: 8 IN

Spacing Within Row: 5 "

Seed Bed: MEDIUM

Soil Moisture: DRY

Emergence Date: 5/11/05

**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: 20

% OM: 1.67

Texture: Clay

% Silt: 30

pH: 7.83

Soil Name: Tunica clay

% Clay: 50

CEC: 22.4

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

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Overall Moisture Conditions: Dry

Closest Weather Station: Northeast Research Station

Distance: 0

Unit: mi

## APPLICATION DESCRIPTION

	A		B
Application Date:	5/6/05		5/23/05
Time of Day:	1:30		1:00
Application Method:	SPRAY		SPRAY
Application Timing:	PRE		2-3 lf
Applic. Placement:	BROSOI		BROFOL
Air Temp., Unit:	90 F		92 F
% Relative Humidity:	50		48
Wind Velocity, Unit:	2 S		0 na
Soil Temp., Unit:	88 F		93 F
Soil Moisture:	Wet		Dry
% Cloud Cover:	0		0

## CROP STAGE AT EACH APPLICATION

	A		B
Crop 1 Code, Stage:	ORYSA n/a		ORYSA 2-3 lf
Stage Scale:	n/a		1-2"

## WEED STAGE AT EACH APPLICATION

	A		B
Weed 1 Code, Stage:	ECHCG n/a		ECHCG 2-3 lf
Stage Scale:	n/a		1-2"
Weed 2 Code, Stage:	SEBEX n/a		SEBEX 1 lf
Stage Scale:	n/a		1"
Weed 3 Code, Stage:	CYPCP n/a		CYPCP 1-2 lf
Stage Scale:	n/a		1-2"

## APPLICATION EQUIPMENT

	A		B
Appl. Equipment:	Backpack		Backpack
Operating Pressure:	31		31
Nozzle Type:	Greenleaf		Greenleaf
Nozzle Size:	11002		11002
Nozzle Spacing, Unit:	20 "		20 "
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	ECHCG
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	5/26/05	6/4/05	6/9/05	6/24/05	7/12/05
Trt-Eval Interval	20 DA-A	12 DA-B	17 DA-B	32 DA-B	50 DA-B

Trt No.	Treatment Name	Rate	Rate Unit	Grow Stg	1	2	3	4	5	
1	Command	0.8	PT/A	PRE 93	ab	80	d 60	c 60	d 57	d
2	Command	1.6	PT/A	PRE 95	a	90	bc 83	b 77	c 67	c
3	Command	0.8	PT/A	2-3 lf 60	e	0	e 0	d 0	f 0	e
4	Command	1.6	PT/A	2-3 lf 60	e	0	e 0	d 0	f 0	e
5	SuperWham	4	QT/A	2-3 lf 95	a	95	a 88	ab 53	e 53	d
	Agridex	1	% V/V	2-3 lf						
6	RiceShot	4	QT/A	2-3 lf 93	ab	87	c 83	b 53	e 53	d
7	Clincher	10	OZ/A	2-3 lf 87	bcd	93	ab 83	b 53	e 53	d
	Agridex	2.5	% V/V	2-3 lf						
8	Grasp	2.0	OZ/A	2-3 lf 83	cd	92	ab 92	a 85	b 85	b
	Agridex	2.5	% V/V	2-3 lf						
9	SuperWham	4	QT/A	2-3 lf 93	ab	95	a 92	a 92	a 92	a
	Command	0.8	PT/A	2-3 lf						
	Agridex	1	% V/V	2-3 lf						
10	RiceShot	4	QT/A	2-3 lf 90	abc	95	a 88	ab 82	bc 82	b
	Command	0.8	PT/A	2-3 lf						
11	Clincher	10	OZ/A	2-3 lf 80	d	92	ab 90	a 78	c 82	b
	Command	0.8	PT/A	2-3 lf						
	Agridex	2.5	% V/V	2-3 lf						
12	Grasp	2.0	OZ/A	2-3 lf 83	cd	92	ab 93	a 95	a 95	a
	Command	0.8	PT/A	2-3 lf						
	Agridex	2.5	% V/V	2-3 lf						
13	SuperWham	4	QT/A	2-3 lf 95	a	95	a 90	a 95	a 95	a
	Command	1.6	PT/A	2-3 lf						
	Agridex	1	% V/V	2-3 lf						
14	RiceShot	4	QT/A	2-3 lf 87	bcd	95	a 90	a 95	a 95	a
	Command	1.6	PT/A	2-3 lf						
15	Clincher	10	OZ/A	2-3 lf 90	abc	95	a 92	a 95	a 95	a
	Command	1.6	PT/A	2-3 lf						
	Agridex	2.5	% V/V	2-3 lf						

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Weed Code	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	5/26/05	6/4/05	6/9/05	6/24/05	7/12/05
Trt-Eval Interval	20 DA-A	12 DA-B	17 DA-B	32 DA-B	50 DA-B
Trt Treatment	Rate	Grow			
No. Name	Rate Unit	Stg	1	2	3
16 Grasp	2.0 OZ/A	2-3 lf	90	abc 95	a 92
Command	1.6 PT/A	2-3 lf			a 95
Agridex	2.5 % V/V	2-3 lf			a 95
LSD (P=.05)			8.0	3.5	6.1
Bartlett's X2			5.418	1.836	5.042
P(Bartlett's X2)			0.796	0.766	0.888

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.

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Weed Code ECHCG  
 Part Rated PLATOT P  
 Rating Data Type CONTROL  
 Rating Unit %  
 Rating Date 8/10/05  
 Trt-Eval Interval 79 DA-B

Trt No.	Treatment Name	Rate	Unit	Grow Stg	6	
1	Command	0.8	PT/A	PRE	57	d
2	Command	1.6	PT/A	PRE	67	c
3	Command	0.8	PT/A	2-3 lf	0	e
4	Command	1.6	PT/A	2-3 lf	0	e
5	SuperWham	4	QT/A	2-3 lf	53	d
	Agridex	1	% V/V	2-3 lf		
6	RiceShot	4	QT/A	2-3 lf	53	d
7	Clincher	10	OZ/A	2-3 lf	53	d
	Agridex	2.5	% V/V	2-3 lf		
8	Grasp	2.0	OZ/A	2-3 lf	85	b
	Agridex	2.5	% V/V	2-3 lf		
9	SuperWham	4	QT/A	2-3 lf	92	a
	Command	0.8	PT/A	2-3 lf		
	Agridex	1	% V/V	2-3 lf		
10	RiceShot	4	QT/A	2-3 lf	82	b
	Command	0.8	PT/A	2-3 lf		
11	Clincher	10	OZ/A	2-3 lf	82	b
	Command	0.8	PT/A	2-3 lf		
	Agridex	2.5	% V/V	2-3 lf		
12	Grasp	2.0	OZ/A	2-3 lf	95	a
	Command	0.8	PT/A	2-3 lf		
	Agridex	2.5	% V/V	2-3 lf		
13	SuperWham	4	QT/A	2-3 lf	95	a
	Command	1.6	PT/A	2-3 lf		
	Agridex	1	% V/V	2-3 lf		
14	RiceShot	4	QT/A	2-3 lf	95	a
	Command	1.6	PT/A	2-3 lf		
15	Clincher	10	OZ/A	2-3 lf	95	a
	Command	1.6	PT/A	2-3 lf		
	Agridex	2.5	% V/V	2-3 lf		
16	Grasp	2.0	OZ/A	2-3 lf	95	a
	Command	1.6	PT/A	2-3 lf		
	Agridex	2.5	% V/V	2-3 lf		

LSD (P=.05) 6.2  
 Bartlett's X2 2.778  
 P(Bartlett's X2) 0.947

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code ECHCG  
Part Rated PLATOT P  
Rating Data Type CONTROL  
Rating Unit %  
Rating Date 8/10/05  
Trt-Eval Interval 79 DA-B

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Trt	Treatment	Rate	Grow
No.	Name	Rate Unit	Stg 6

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

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