

## LSU Northeast Research Station

Evaluation of Grasp for weed control in drill-seeded rice.

Trial ID: SJ05R006  
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	Cyperus 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: RANDOMIZED COMPLETE BLOCK

**SOIL DESCRIPTION**

% Sand: 24	% OM: 2.11	Texture: Clay
% Silt: 34	pH: 7.94	Soil Name: Sharky
% 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

Unit: MI

## APPLICATION DESCRIPTION

	A	B	C
Application Date:	5/18/05	5/26/05	6/8/05
Time of Day:	3:00	11:00	2:00
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	1-2 lf	1WPF
Applic. Placement:	BROSOI	BROFOL	BROFOL
Air Temp., Unit:	91 F	85 F	84 F
% Relative Humidity:	63	33	66
Wind Velocity, Unit:	5 S	3 S	6 W
Dew Presence (Y/N):	N	N	N
Soil Temp., Unit:	97 F	94 F	86 F
Soil Moisture:	DRY	MOIST	DRY
% Cloud Cover:	30	0	90

## CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ORYSA n/a	ORYSA 2 lf	ORYSA 1 T
Stage Scale:	n/a	2 in	5-6 in

## WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	ECHCG n/a	ECHCG 3-4 lf	ECHCG 1 T
Stage Scale:	n/a	2 in	3-6 in
Weed 2 Code, Stage:	SEBEX n/a	SEBEX 1 lf	SEBEX 4-5 lf
Stage Scale:	n/a	1 in	4 in
Weed 3 Code, Stage:	COMDI n/a	COMDI 1 lf	COMDI 2-3 lf
Stage Scale:	n/a	1 in	2 in
Weed 4 Code, Stage:	CNPPA n/a	CNPPA 1-2 lf	CNPPA 4 lf
Stage Scale:	n/a	1 in	8 in
Weed 5 Code, Stage:	CYPCP n/a	CYPCP 1 lf	CYPCP 2-3 lf
Stage Scale:	n/a	0.5 in	1-2 in

## APPLICATION EQUIPMENT

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

LSU Northeast Research Station

Evaluation of Grasp for weed control in drill-seeded rice.

Trial ID: SJ05R006  
 Location:

Study Dir.:  
 Investigator: Bill Williams

Weed Code	ECHCG	ECHCG	ECHCG	ECHCG	LEFPA
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	6/30/05	7/14/05	7/27/05	8/10/05	6/30/05
Trt-Eval Interval	22 DA-C	36 DA-C	49 DA-C	63 DA-C	22 DA-C
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Rate	Grow Unit	Stg	1	2	3	4	5	
1	Grasp	2	OZ/A	1-2 lf	95	a 95	a 95	a 95	a 95	a
	Command	1.3	PT/A	1-2 lf						
	COC	2.5	% V/V	1-2 lf						
2	Grasp	2	OZ/A	1-2 lf	95	a 95	a 95	a 95	a 95	a
	Command	1.3	PT/A	1-2 lf						
	COC	2.5	% V/V	1-2 lf						
	Granstand	0.66	PT/A	1 WPF						
	Permit	0.5	OZ/A	1 WPF						
	COC	1.25	% V/V	1 WPF						
3	Grasp	2	OZ/A	1-2 lf	90	a 95	a 95	a 95	a 78	b
	Stam 4SC	3	QT/A	1-2 lf						
	COC	2.5	% V/V	1-2 lf						
4	Grasp	2	OZ/A	1-2 lf	93	a 95	a 95	a 95	a 78	b
	Stam 4SC	3	QT/A	1-2 lf						
	COC	2.5	% V/V	1-2 lf						
	Granstand	0.66	PT/A	1 WPF						
	Permit	0.5	OZ/A	1 WPF						
	COC	1.25	% V/V	1 WPF						
5	Grasp	2	OZ/A	1-2 lf	92	a 95	a 95	a 93	a 0	c
	Facet	6	OZ/A	1-2 lf						
	COC	2.5	% V/V	1-2 lf						
6	Grasp	2	OZ/A	1-2 lf	92	a 95	a 95	a 95	a 0	c
	Facet	6	OZ/A	1-2 lf						
	COC	2.5	% V/V	1-2 lf						
	Granstand	0.66	PT/A	1 WPF						
	Permit	0.5	OZ/A	1 WPF						
	COC	1.25	% V/V	1 WPF						
7	Command	1.3	PT/A	PRE	92	a 95	a 95	a 95	a 95	a
	Grasp	2	OZ/A	1 WPF						
	COC	2.5	% V/V	1 WPF						

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Weed Code	ECHCG	ECHCG	ECHCG	ECHCG	LEFPA
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	6/30/05	7/14/05	7/27/05	8/10/05	6/30/05
Trt-Eval Interval	22 DA-C	36 DA-C	49 DA-C	63 DA-C	22 DA-C
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Rate	Unit	Grow Stg	1	2	3	4	5	
8	Command	1.3	PT/A	PRE	93	a 95	a 95	a 95	a 95	a
	Grasp	2	OZ/A	1 WPF						
	Granstand	0.5	PT/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
9	Command	1.3	PT/A	PRE	93	a 95	a 95	a 95	a 93	a
	Grasp	2	OZ/A	1 WPF						
	Permit	0.5	OZ/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
10	Command	1.3	PT/A	PRE	95	a 95	a 95	a 92	a 95	a
	Grasp	2	OZ/A	1 WPF						
	Stam 4SC	4	QT/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
11	Command	1.3	PT/A	PRE	93	a 95	a 95	a 95	a 95	a
	Grasp	2	OZ/A	1 WPF						
	Clincher	13.5	OZ/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
12	Command	1.3	PT/A	PRE	93	a 95	a 95	a 95	a 93	a
	Grasp	2.3	OZ/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
13	Command	1.3	PT/A	PRE	92	a 95	a 95	a 95	a 93	a
	Grasp	2.8	OZ/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
14	Command	1.3	PT/A	PRE	93	a 95	a 95	a 95	a 95	a
	Grasp	2.3	OZ/A	1 WPF						
	Clincher	15	OZ/A	1 WPF						
	COC	2.5	% V/V	1 WPF						

LSD (P=.05)	4.1	0.0	0.0	2.8	2.9
Bartlett's X2	1.308	0.0	0.0	0.877	0.0
P(Bartlett's X2)	0.999	.	.	0.349	1.00

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	LEFPA	LEFPA	LEFPA	CYPCP	CYPCP
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	7/14/05	7/27/05	8/10/05	6/30/05	7/14/05
Trt-Eval Interval	36 DA-C	49 DA-C	63 DA-C	22 DA-C	36 DA-C
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Rate	Unit	Grow Stg	6	7	8	9	10	
1	Grasp	2	OZ/A	1-2 lf	95	a 95	a 95	a 95	a 95	a
	Command	1.3	PT/A	1-2 lf						
	COC	2.5	% V/V	1-2 lf						
2	Grasp	2	OZ/A	1-2 lf	95	a 95	a 95	a 95	a 95	a
	Command	1.3	PT/A	1-2 lf						
	COC	2.5	% V/V	1-2 lf						
	Granstand	0.66	PT/A	1 WPF						
	Permit	0.5	OZ/A	1 WPF						
	COC	1.25	% V/V	1 WPF						
3	Grasp	2	OZ/A	1-2 lf	90	a 90	a 87	a 95	a 95	a
	Stam 4SC	3	QT/A	1-2 lf						
	COC	2.5	% V/V	1-2 lf						
4	Grasp	2	OZ/A	1-2 lf	88	a 88	a 95	a 95	a 95	a
	Stam 4SC	3	QT/A	1-2 lf						
	COC	2.5	% V/V	1-2 lf						
	Granstand	0.66	PT/A	1 WPF						
	Permit	0.5	OZ/A	1 WPF						
	COC	1.25	% V/V	1 WPF						
5	Grasp	2	OZ/A	1-2 lf	28	b 28	b 30	b 95	a 95	a
	Facet	6	OZ/A	1-2 lf						
	COC	2.5	% V/V	1-2 lf						
6	Grasp	2	OZ/A	1-2 lf	0	c 0	c 0	c 95	a 95	a
	Facet	6	OZ/A	1-2 lf						
	COC	2.5	% V/V	1-2 lf						
	Granstand	0.66	PT/A	1 WPF						
	Permit	0.5	OZ/A	1 WPF						
	COC	1.25	% V/V	1 WPF						
7	Command	1.3	PT/A	PRE	87	a 87	a 95	a 95	a 95	a
	Grasp	2	OZ/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
8	Command	1.3	PT/A	PRE	88	a 88	a 90	a 92	b 95	a
	Grasp	2	OZ/A	1 WPF						
	Granstand	0.5	PT/A	1 WPF						
	COC	2.5	% V/V	1 WPF						

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Weed Code	LEFPA	LEFPA	LEFPA	CYPCP	CYPCP
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	7/14/05	7/27/05	8/10/05	6/30/05	7/14/05
Trt-Eval Interval	36 DA-C	49 DA-C	63 DA-C	22 DA-C	36 DA-C
ARM Action Codes					
# Subsamples, Dec.					

Trt	Treatment	Rate	Unit	Grow	6	7	8	9	10	
9	Command	1.3	PT/A	PRE	90	a 90	a 93	a 95	a 95	a
	Grasp	2	OZ/A	1 WPF						
	Permit	0.5	OZ/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
10	Command	1.3	PT/A	PRE	95	a 95	a 95	a 92	b 95	a
	Grasp	2	OZ/A	1 WPF						
	Stam 4SC	4	QT/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
11	Command	1.3	PT/A	PRE	95	a 95	a 95	a 92	b 95	a
	Grasp	2	OZ/A	1 WPF						
	Clincher	13.5	OZ/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
12	Command	1.3	PT/A	PRE	88	a 88	a 92	a 95	a 95	a
	Grasp	2.3	OZ/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
13	Command	1.3	PT/A	PRE	88	a 88	a 92	a 92	b 95	a
	Grasp	2.8	OZ/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
14	Command	1.3	PT/A	PRE	92	a 92	a 95	a 93	ab 95	a
	Grasp	2.3	OZ/A	1 WPF						
	Clincher	15	OZ/A	1 WPF						
	COC	2.5	% V/V	1 WPF						

LSD (P=.05)	22.6	22.6	23.4	2.8	0.0
Bartlett's X2	25.202	25.202	21.849	0.0	0.0
P(Bartlett's X2)	0.001*	0.001*	0.001*	1.00	.

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	CYPCP	SEBEX	SEBEX	SEBEX	SEBEX
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	7/27/05	6/30/05	7/14/05	7/27/05	8/10/05
Trt-Eval Interval	49 DA-C	22 DA-C	36 DA-C	49 DA-C	63 DA-C
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Rate	Unit	Grow Stg	11	12	13	14	15	
1	Grasp	2	OZ/A	1-2 lf	95	a 95	a 88	ab 88	ab 95	a
	Command	1.3	PT/A	1-2 lf						
	COC	2.5	% V/V	1-2 lf						
2	Grasp	2	OZ/A	1-2 lf	95	a 95	a 93	a 93	a 95	a
	Command	1.3	PT/A	1-2 lf						
	COC	2.5	% V/V	1-2 lf						
	Granstand	0.66	PT/A	1 WPF						
	Permit	0.5	OZ/A	1 WPF						
	COC	1.25	% V/V	1 WPF						
3	Grasp	2	OZ/A	1-2 lf	95	a 92	b 93	a 93	a 92	a
	Stam 4SC	3	QT/A	1-2 lf						
	COC	2.5	% V/V	1-2 lf						
4	Grasp	2	OZ/A	1-2 lf	95	a 95	a 93	a 93	a 95	a
	Stam 4SC	3	QT/A	1-2 lf						
	COC	2.5	% V/V	1-2 lf						
	Granstand	0.66	PT/A	1 WPF						
	Permit	0.5	OZ/A	1 WPF						
	COC	1.25	% V/V	1 WPF						
5	Grasp	2	OZ/A	1-2 lf	95	a 95	a 95	a 95	a 95	a
	Facet	6	OZ/A	1-2 lf						
	COC	2.5	% V/V	1-2 lf						
6	Grasp	2	OZ/A	1-2 lf	95	a 95	a 95	a 95	a 95	a
	Facet	6	OZ/A	1-2 lf						
	COC	2.5	% V/V	1-2 lf						
	Granstand	0.66	PT/A	1 WPF						
	Permit	0.5	OZ/A	1 WPF						
	COC	1.25	% V/V	1 WPF						
7	Command	1.3	PT/A	PRE	95	a 88	c 82	b 82	b 90	a
	Grasp	2	OZ/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
8	Command	1.3	PT/A	PRE	95	a 95	a 88	ab 88	ab 95	a
	Grasp	2	OZ/A	1 WPF						
	Granstand	0.5	PT/A	1 WPF						
	COC	2.5	% V/V	1 WPF						

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Weed Code	CYPCP	SEBEX	SEBEX	SEBEX	SEBEX
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	7/27/05	6/30/05	7/14/05	7/27/05	8/10/05
Trt-Eval Interval	49 DA-C	22 DA-C	36 DA-C	49 DA-C	63 DA-C
ARM Action Codes					
# Subsamples, Dec.					

Trt	Treatment	Rate	Grow							
No.	Name	Rate	Unit	Stg	11	12	13	14	15	
9	Command	1.3	PT/A	PRE	95	a 95	a 95	a 95	a 95	a
	Grasp	2	OZ/A	1 WPF						
	Permit	0.5	OZ/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
10	Command	1.3	PT/A	PRE	95	a 95	a 90	a 90	a 95	a
	Grasp	2	OZ/A	1 WPF						
	Stam 4SC	4	QT/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
11	Command	1.3	PT/A	PRE	95	a 95	a 95	a 95	a 95	a
	Grasp	2	OZ/A	1 WPF						
	Clincher	13.5	OZ/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
12	Command	1.3	PT/A	PRE	95	a 95	a 93	a 93	a 95	a
	Grasp	2.3	OZ/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
13	Command	1.3	PT/A	PRE	95	a 95	a 95	a 95	a 95	a
	Grasp	2.8	OZ/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
14	Command	1.3	PT/A	PRE	95	a 95	a 95	a 95	a 95	a
	Grasp	2.3	OZ/A	1 WPF						
	Clincher	15	OZ/A	1 WPF						
	COC	2.5	% V/V	1 WPF						
LSD (P=.05)					0.0	2.9	7.0	7.0	3.4	
Bartlett's X2					0.0	0.877	7.192	7.192	0.041	
P(Bartlett's X2)					.	0.349	0.409	0.409	0.84	

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  
 Crop Code ORYSA ORYSA ORYSA  
 Part Rated GRAIN C GRAIN C GRAIN C  
 Rating Data Type lbs/plt Moisture YIELD  
 Rating Unit 5x12ft % BU@12%  
 Rating Date 9/22/05 9/22/05 9/22/05  
 Trt-Eval Interval  
 ARM Action Codes TY1  
 # Subsamples, Dec. 0

Trt No.	Treatment Name	Rate	Unit	Grow Stg	16	17	18
1	Grasp	2	OZ/A	1-2 lf	6	a 11	a 91
	Command	1.3	PT/A	1-2 lf			
	COC	2.5	% V/V	1-2 lf			
2	Grasp	2	OZ/A	1-2 lf	6	a 13	a 87
	Command	1.3	PT/A	1-2 lf			
	COC	2.5	% V/V	1-2 lf			
	Granstand	0.66	PT/A	1 WPF			
	Permit	0.5	OZ/A	1 WPF			
	COC	1.25	% V/V	1 WPF			
3	Grasp	2	OZ/A	1-2 lf	6	a 14	a 89
	Stam 4SC	3	QT/A	1-2 lf			
	COC	2.5	% V/V	1-2 lf			
4	Grasp	2	OZ/A	1-2 lf	6	a 13	a 101
	Stam 4SC	3	QT/A	1-2 lf			
	COC	2.5	% V/V	1-2 lf			
	Granstand	0.66	PT/A	1 WPF			
	Permit	0.5	OZ/A	1 WPF			
	COC	1.25	% V/V	1 WPF			
5	Grasp	2	OZ/A	1-2 lf	5	a 13	a 88
	Facet	6	OZ/A	1-2 lf			
	COC	2.5	% V/V	1-2 lf			
6	Grasp	2	OZ/A	1-2 lf	7	a 12	a 120
	Facet	6	OZ/A	1-2 lf			
	COC	2.5	% V/V	1-2 lf			
	Granstand	0.66	PT/A	1 WPF			
	Permit	0.5	OZ/A	1 WPF			
	COC	1.25	% V/V	1 WPF			
7	Command	1.3	PT/A	PRE	7	a 13	a 106
	Grasp	2	OZ/A	1 WPF			
	COC	2.5	% V/V	1 WPF			
8	Command	1.3	PT/A	PRE	5	a 13	a 82
	Grasp	2	OZ/A	1 WPF			
	Granstand	0.5	PT/A	1 WPF			
	COC	2.5	% V/V	1 WPF			

## LSU Northeast Research Station

Weed Code			
Crop Code	ORYSA	ORYSA	ORYSA
Part Rated	GRAIN C	GRAIN C	GRAIN C
Rating Data Type	lbs/plt	Moisture	YIELD
Rating Unit	5x12ft	%	BU@12%
Rating Date	9/22/05	9/22/05	9/22/05
Trt-Eval Interval			
ARM Action Codes			TY1
# Subsamples, Dec.			0

Trt	Treatment	Rate	Unit	Grow	Stg	16	17	18	
9	Command	1.3	PT/A	PRE	6	a	13	a	89
	Grasp	2	OZ/A	1 WPF					a
	Permit	0.5	OZ/A	1 WPF					
	COC	2.5	% V/V	1 WPF					
10	Command	1.3	PT/A	PRE	5	a	13	a	80
	Grasp	2	OZ/A	1 WPF					
	Stam 4SC	4	QT/A	1 WPF					
	COC	2.5	% V/V	1 WPF					
11	Command	1.3	PT/A	PRE	6	a	12	a	99
	Grasp	2	OZ/A	1 WPF					
	Clincher	13.5	OZ/A	1 WPF					
	COC	2.5	% V/V	1 WPF					
12	Command	1.3	PT/A	PRE	6	a	13	a	93
	Grasp	2.3	OZ/A	1 WPF					
	COC	2.5	% V/V	1 WPF					
13	Command	1.3	PT/A	PRE	6	a	13	a	94
	Grasp	2.8	OZ/A	1 WPF					
	COC	2.5	% V/V	1 WPF					
14	Command	1.3	PT/A	PRE	7	a	12	a	104
	Grasp	2.3	OZ/A	1 WPF					
	Clincher	15	OZ/A	1 WPF					
	COC	2.5	% V/V	1 WPF					

LSD (P=.05)	2.0	1.3	32.1
Bartlett's X2	7.799	15.76	7.354
P(Bartlett's X2)	0.856	0.262	0.883

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 18: TY1 = 16.13333\*[16]\*(100-[17])/88