

LSU Northeast Research Station

Evaluation Aim and Command in Clearfield rice weed management programs

Trial ID: SJ05R014
Location:Study Dir.:
Investigator: Bill Williams**GENERAL TRIAL INFORMATION****Investigator:** Bill Williams**Conducted Under GLP (Y/N):** N**Conducted Under GEP (Y/N):** N

Conclusions: The best barnyardgrass control and rice yields were observed in plots receiving two Newpath applications that included Command applied PRE or at the 1-2 lf stage. Barnyardgrass control and rice yield was best when the first Newpath application was made at the 1-2 lf stage. Aim was very effective at removing hemp sesbania when tank mixed with the second Newpath application. Overall, the best weed control and rice yield (150 bu/A) occurred when Clearpath (Newpath plus Facet) plus Command was followed by Newpath plus Aim. Improved early season sesbania control likely accounted for the yield increase. The barnyardgrass in this trial was Facet tolerant, which is why barnyardgrass control with Facet plus Command was generally less than that observed with Newpath. These results indicate that Command and Aim are useful tools for managing weeds and improving rice yields in Clearfield rice, especially when Clearfield rice is drill-seeded on clay soils. It also demonstrates the importance of early season weed control for all weeds, not just annual grasses.

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, baby	Commelina diffusa
4.	CNPPA Texasweed	Caperonia palustris
5.	CYPCP Annual sedge	Cyperus compressus

Crop 1: ORYSA RICE**Variety:** CL161**Planting Date:** 5/16/05**Planting Method:** DRILLED**Rate:** 90 LB/A**Depth:** 0.25 IN**Row Spacing:** 8 IN**Spacing Within Row:** 5 IN**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: 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

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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	na
4.	5/29/05	1:00 AM	0.63	in	Rainfall	0	na
5.	5/30/05	11:00 A	1.51	in	Rainfall	0	na
6.	5/31/05	8:00 PM	0.26	in	Rainfall	0	na
7.	6/2/05	4:00 PM	0.04	in	Rainfall	0	na
8.	6/6/05	7:00 PM	0.39	in	Rainfall	0	na
9.	6/17/05				300 lb Urea - Permanent flood	0	na
10.	6/18/05	11:00 A	0.42	in	Rainfall	0	na
11.	7/3/05	6:00 PM	0.06	in	Rainfall	0	na
12.	7/6/05	1:30 PM	1.6	in	Rainfall	0	na
13.	7/8/05	1:45 PM	0.93	in	Rainfall	0	na
14.	7/10/05	1:00 PM	0.04	in	Rainfall	0	na
15.	7/14/05	2:00 PM	0.44	in	Rainfall	0	na
16.	7/16/05	10:00 P	0.04	in	Rainfall	0	na
17.	7/17/05	1:00 PM	0.25	in	Rainfall	0	na
18.	7/18/05	7:00 PM	0.05	in	Rainfall	0	na
19.	7/22/05	2:30 PM	0.15	in	Rainfall	0	na
20.	8/4/05	3:30 PM	0.27	in	Rainfall	0	na
21.	8/5/05	8:00 PM	0.45	in	Rainfall	0	na
22.	8/6/05	6:00 PM	0.25	in	Rainfall	0	na
23.	8/16/05	6:00 PM	1.31	in	Rainfall	0	na
24.	8/22/05	9:00 PM	0.05	in	Rainfall	0	na

Overall Moisture Conditions: Dry

Closest Weather Station: Northeast Research Station

Distance: 0

Unit: MI

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	5/18/05	5/26/05	6/6/05	6/14/05
Time of Day:	3:00	11:00	2:00	2:00
Application Method:	SPRAY	SPRAY	3	SPRAY
Application Timing:	PRE	1-2 lf	3-4 lf	5-6 lf
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	91 F	85 F	87 F	95 F
% Relative Humidity:	63	33	74	68
Wind Velocity, Unit:	5 S	2.5 E	5 W	56 S
Soil Temp., Unit:	97 F	94 F	86 F	100 F
Soil Moisture:	Dry	Moist	damp	damp
% Cloud Cover:	40	0	90	40

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	ORYSA	ORYSA	ORYSA	ORYSA
Stage Scale:	n/a	2 lf		4-5 lf
Height, Unit:		2 "		6 "

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WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	ECHCG	ECHCG	ECHCG	ECHCG
Stage Scale:		3-4 lf	3-4 lf	3-4 lf
Density, Unit:		2 "	3 "	2-4 "
Weed 2 Code, Stage:	SEBEX	SEBEX	SEBEX	SEBEX
Stage Scale:	n/a	1 lf	4-5 lf	6-8"
Density, Unit:		1 "	3-4 "	
Weed 3 Code, Stage:	COMDI	COMDI	COMDI	COMDI
Stage Scale:	n/a	1 lf		
Density, Unit:		1 "		
Weed 4 Code, Stage:	CNPPA	CNPPA	CNPPA	CNPPA
Stage Scale:	n/a	1-2 lf		
Density, Unit:		1 "		
Weed 5 Code, Stage:	CYPCP	CYPCP	CYPCP	CYPCP
Stage Scale:	n/a	1 lf	2 lf	
Density, Unit:		.5 "	1 "	

APPLICATION EQUIPMENT

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

LSU Northeast Research Station

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Trial ID: SJ05R014
 Location:

Study Dir.:
 Investigator: Bill Williams

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	6/15/05	6/30/05	7/14/05	8/10/05
Trt-Eval Interval	9 DA-B	9 DA-C	16 DA-D	30 DA-D	57 DA-D

ARM Action Codes
 # Subsamples, Dec.

Trt No.	Treatment Name	Rate	Rate Unit	Grow Stg	1	2	3	4	5	
1	Command	0.4	LB A/A	PRE	93	ab 88	ab 90	abc 77	cd 77	c
	Newpath	0.063	LB A/A	PRE						
	COC	1	% V/V	PRE						
	Newpath	0.063	LB A/A	5-6 lf						
	Aim	0.025	LB A/A	5-6 lf						
	COC	1	% V/V	5-6 lf						
2	Command	0.4	LB A/A	1-2 lf	88	bc 92	ab 93	ab 95	a 92	a
	Newpath	0.063	LB A/A	1-2 lf						
	COC	1	% V/V	1-2 lf						
	Newpath	0.063	LB A/A	5-6 lf						
	Aim	0.025	LB A/A	5-6 lf						
	COC	1	% V/V	5-6 lf						
3	Command	0.4	LB A/A	PRE	95	a 93	a 93	ab 93	ab 93	a
	Newpath	0.063	LB A/A	1-2 lf						
	COC	1	% V/V	1-2 lf						
	Newpath	0.063	LB A/A	5-6 lf						
	Aim	0.025	LB A/A	5-6 lf						
	COC	1	% V/V	5-6 lf						
4	Command	0.4	LB A/A	PRE	83	cd 88	ab 85	c 85	bc 82	bc
	Newpath	0.063	LB A/A	3-4 lf						
	COC	1	% V/V	3-4 lf						
	Aim	0.025	LB A/A	5-6 lf						
	COC	1	% V/V	5-6 lf						
5	Command	0.4	LB A/A	PRE	92	ab 88	ab 90	abc 90	ab 87	ab
	Clearpath	0.363	LB A/A	PRE						
	COC	1	% V/V	PRE						
	Newpath	0.063	LB A/A	5-6 lf						
	Aim	0.025	LB A/A	5-6 lf						
	COC	1	% V/V	5-6 lf						

LSU Northeast Research Station

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	6/15/05	6/30/05	7/14/05	8/10/05
Trt-Eval Interval	9 DA-B	9 DA-C	16 DA-D	30 DA-D	57 DA-D
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Rate	Unit	Grow Stg	1	2	3	4	5	
6	Command	0.4	LB A/A	PRE	82	d 83	b 95	a 90	ab 93	a
	Clearpath	0.363	LB A/A	3-4 lf						
	COC	1	% V/V	3-4 lf						
	Newpath	0.063	LB A/A	5-6 lf						
	Aim	0.025	LB A/A	5-6 lf						
	COC	1	% V/V	5-6 lf						
7	Command	0.4	LB A/A	1-2 lf	95	a 93	a 95	a 93	ab 93	a
	Clearpath	0.363	LB A/A	1-2 lf						
	COC	1	% V/V	1-2 lf						
	Newpath	0.063	LB A/A	5-6 lf						
	Aim	0.025	LB A/A	5-6 lf						
	COC	1	% V/V	5-6 lf						
8	Newpath	0.063	LB A/A	PRE	80	d 63	c 68	d 57	f 57	e
	COC	1	% V/V	PRE						
	Newpath	0.063	LB A/A	5-6 lf						
	COC	1	% V/V	5-6 lf						
9	Command	0.4	LB A/A	PRE	83	cd 67	c 68	d 67	e 60	e
	Facet	0.33	LB A/A	3-4 lf						
	COC	1	% V/V	3-4 lf						
	Aim	0.025	LB A/A	5-6 lf						
	COC	1	% V/V	5-6 lf						
10	Command	0.4	LB A/A	1-2 lf	92	ab 87	ab 88	bc 75	de 68	d
	Facet	0.33	LB A/A	1-2 lf						
	COC	1	% V/V	1-2 lf						
	Aim	0.025	LB A/A	5-6 lf						
	COC	1	% V/V	5-6 lf						

LSD (P=.05)	6.5	9.4	6.4	8.9	7.8
Bartlett's X2	4.077	4.258	3.828	3.074	4.743
P(Bartlett's X2)	0.666	0.894	0.70	0.93	0.785

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	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	6/30/05	7/14/05	6/4/05	6/15/05	6/30/05
Trt-Eval Interval	16 DA-D	30 DA-D	9 DA-B	9 DA-C	16 DA-D
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Rate	Unit	Grow Stg	6	7	8	9	10	
1	Command	0.4	LB A/A	PRE	95	a 93	a 0	b 0	c 95	ab
	Newpath	0.063	LB A/A	PRE						
	COC	1	% V/V	PRE						
	Newpath	0.063	LB A/A	5-6 lf						
	Aim	0.025	LB A/A	5-6 lf						
	COC	1	% V/V	5-6 lf						
2	Command	0.4	LB A/A	1-2 lf	95	a 95	a 0	b 0	c 95	ab
	Newpath	0.063	LB A/A	1-2 lf						
	COC	1	% V/V	1-2 lf						
	Newpath	0.063	LB A/A	5-6 lf						
	Aim	0.025	LB A/A	5-6 lf						
	COC	1	% V/V	5-6 lf						
3	Command	0.4	LB A/A	PRE	95	a 93	a 0	b 0	c 95	ab
	Newpath	0.063	LB A/A	1-2 lf						
	COC	1	% V/V	1-2 lf						
	Newpath	0.063	LB A/A	5-6 lf						
	Aim	0.025	LB A/A	5-6 lf						
	COC	1	% V/V	5-6 lf						
4	Command	0.4	LB A/A	PRE	93	a 88	ab 0	b 0	c 83	c
	Newpath	0.063	LB A/A	3-4 lf						
	COC	1	% V/V	3-4 lf						
	Aim	0.025	LB A/A	5-6 lf						
	COC	1	% V/V	5-6 lf						
5	Command	0.4	LB A/A	PRE	95	a 88	ab 92	a 90	ab 99	a
	Clearpath	0.363	LB A/A	PRE						
	COC	1	% V/V	PRE						
	Newpath	0.063	LB A/A	5-6 lf						
	Aim	0.025	LB A/A	5-6 lf						
	COC	1	% V/V	5-6 lf						
6	Command	0.4	LB A/A	PRE	95	a 92	a 0	b 87	b 99	a
	Clearpath	0.363	LB A/A	3-4 lf						
	COC	1	% V/V	3-4 lf						
	Newpath	0.063	LB A/A	5-6 lf						
	Aim	0.025	LB A/A	5-6 lf						
	COC	1	% V/V	5-6 lf						

LSU Northeast Research Station

Weed Code	LEFPA	LEFPA	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	6/30/05	7/14/05	6/4/05	6/15/05	6/30/05
Trt-Eval Interval	16 DA-D	30 DA-D	9 DA-B	9 DA-C	16 DA-D
ARM Action Codes					
# Subsamples, Dec.					
Trt Treatment	Rate	Grow			
No. Name	Rate Unit	Stg	6	7	8
7 Command	0.4 LB A/A	1-2 lf	95	a 95	a 92
Clearpath	0.363 LB A/A	1-2 lf			a 95
COC	1 % V/V	1-2 lf			a 99
Newpath	0.063 LB A/A	5-6 lf			a
Aim	0.025 LB A/A	5-6 lf			
COC	1 % V/V	5-6 lf			
8 Newpath	0.063 LB A/A	PRE	83	b 80	bc 0
COC	1 % V/V	PRE			b 0
Newpath	0.063 LB A/A	5-6 lf			c 0
COC	1 % V/V	5-6 lf			d
9 Command	0.4 LB A/A	PRE	85	b 73	c 0
Facet	0.33 LB A/A	3-4 lf			b 85
COC	1 % V/V	3-4 lf			b 92
Aim	0.025 LB A/A	5-6 lf			b
COC	1 % V/V	5-6 lf			
10 Command	0.4 LB A/A	1-2 lf	92	a 90	a 93
Facet	0.33 LB A/A	1-2 lf			a 95
COC	1 % V/V	1-2 lf			a 95
Aim	0.025 LB A/A	5-6 lf			ab
COC	1 % V/V	5-6 lf			
LSD (P=.05)	4.8	8.8	2.5	6.5	4.7
Bartlett's X2	1.428	3.383	0.0	0.14	0.0
P(Bartlett's X2)	0.699	0.759	1.00	0.708	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.

LSU Northeast Research Station

Weed Code	SEBEX	SEBEX	ORYSA	ORYSA	ORYSA
Crop Code					
Part Rated	PLATOT P	PLATOT P	PLAQUA C	PLAQUA C	GRAIN C
Rating Data Type	CONTROL	CONTROL	PHYGEN	PHYGEN	lb/plt
Rating Unit	%	%	%	%	10% Mst
Rating Date	7/14/05	8/10/05	6/15/05	6/15/05	9/22/05
Trt-Eval Interval	30 DA-D	57 DA-D	1 DA-D	9 DA-C	
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Rate	Unit	Grow Stg	11	12	13	14	15
1	Command	0.4	LB A/A	PRE	95	a 95	a 17	a 0	a 4 e
	Newpath	0.063	LB A/A	PRE					
	COC	1	% V/V	PRE					
	Newpath	0.063	LB A/A	5-6 lf					
	Aim	0.025	LB A/A	5-6 lf					
	COC	1	% V/V	5-6 lf					
2	Command	0.4	LB A/A	1-2 lf	95	a 95	a 12	a 0	a 7 c
	Newpath	0.063	LB A/A	1-2 lf					
	COC	1	% V/V	1-2 lf					
	Newpath	0.063	LB A/A	5-6 lf					
	Aim	0.025	LB A/A	5-6 lf					
	COC	1	% V/V	5-6 lf					
3	Command	0.4	LB A/A	PRE	95	a 95	a 18	a 0	a 8 b
	Newpath	0.063	LB A/A	1-2 lf					
	COC	1	% V/V	1-2 lf					
	Newpath	0.063	LB A/A	5-6 lf					
	Aim	0.025	LB A/A	5-6 lf					
	COC	1	% V/V	5-6 lf					
4	Command	0.4	LB A/A	PRE	88	b 90	a 7	a 0	a 4 e
	Newpath	0.063	LB A/A	3-4 lf					
	COC	1	% V/V	3-4 lf					
	Aim	0.025	LB A/A	5-6 lf					
	COC	1	% V/V	5-6 lf					
5	Command	0.4	LB A/A	PRE	95	a 95	a 12	a 0	a 6 d
	Clearpath	0.363	LB A/A	PRE					
	COC	1	% V/V	PRE					
	Newpath	0.063	LB A/A	5-6 lf					
	Aim	0.025	LB A/A	5-6 lf					
	COC	1	% V/V	5-6 lf					
6	Command	0.4	LB A/A	PRE	95	a 95	a 15	a 0	a 4 e
	Clearpath	0.363	LB A/A	3-4 lf					
	COC	1	% V/V	3-4 lf					
	Newpath	0.063	LB A/A	5-6 lf					
	Aim	0.025	LB A/A	5-6 lf					
	COC	1	% V/V	5-6 lf					

LSU Northeast Research Station

Weed Code	SEBEX	SEBEX	ORYSA	ORYSA	ORYSA
Crop Code	PLATOT P	PLATOT P	PLAQUA C	PLAQUA C	GRAIN C
Part Rated	CONTROL	CONTROL	PHYGEN	PHYGEN	lb/plt
Rating Data Type	%	%	%	%	10% Mst
Rating Unit	7/14/05	8/10/05	6/15/05	6/15/05	9/22/05
Trt-Eval Interval	30 DA-D	57 DA-D	1 DA-D	9 DA-C	
ARM Action Codes					
# Subsamples, Dec.					
Trt Treatment	Rate	Grow			
No. Name	Rate Unit	Stg	11	12	13
7 Command	0.4 LB A/A	1-2 lf	95	a 95	a 23
Clearpath	0.363 LB A/A	1-2 lf			a 0
COC	1 % V/V	1-2 lf			a 9
Newpath	0.063 LB A/A	5-6 lf			a
Aim	0.025 LB A/A	5-6 lf			
COC	1 % V/V	5-6 lf			
8 Newpath	0.063 LB A/A	PRE	0	c 0	b 0
COC	1 % V/V	PRE			a 0
Newpath	0.063 LB A/A	5-6 lf			a 0
COC	1 % V/V	5-6 lf			a 0
9 Command	0.4 LB A/A	PRE	93	a 93	a 10
Facet	0.33 LB A/A	3-4 lf			a 0
COC	1 % V/V	3-4 lf			a 1
Aim	0.025 LB A/A	5-6 lf			f
COC	1 % V/V	5-6 lf			
10 Command	0.4 LB A/A	1-2 lf	95	a 95	a 15
Facet	0.33 LB A/A	1-2 lf			a 0
COC	1 % V/V	1-2 lf			a 6
Aim	0.025 LB A/A	5-6 lf			cd
COC	1 % V/V	5-6 lf			
LSD (P=.05)			4.5	5.0	14.7
Bartlett's X2			1.613	1.993	5.441
P(Bartlett's X2)			0.204	0.158	0.71

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
 Crop Code ORYSA
 Part Rated GRAIN C
 Rating Data Type Bu/A
 Rating Unit 12% Mst
 Rating Date 9/22/05
 Trt-Eval Interval
 ARM Action Codes TY1
 # Subsamples, Dec. 0

Trt No.	Treatment Name	Rate	Unit	Grow Stg	16	
1	Command	0.4	LB A/A	PRE	71	e
	Newpath	0.063	LB A/A	PRE		
	COC	1	% V/V	PRE		
	Newpath	0.063	LB A/A	5-6 lf		
	Aim	0.025	LB A/A	5-6 lf		
	COC	1	% V/V	5-6 lf		
2	Command	0.4	LB A/A	1-2 lf	109	c
	Newpath	0.063	LB A/A	1-2 lf		
	COC	1	% V/V	1-2 lf		
	Newpath	0.063	LB A/A	5-6 lf		
	Aim	0.025	LB A/A	5-6 lf		
	COC	1	% V/V	5-6 lf		
3	Command	0.4	LB A/A	PRE	124	b
	Newpath	0.063	LB A/A	1-2 lf		
	COC	1	% V/V	1-2 lf		
	Newpath	0.063	LB A/A	5-6 lf		
	Aim	0.025	LB A/A	5-6 lf		
	COC	1	% V/V	5-6 lf		
4	Command	0.4	LB A/A	PRE	72	e
	Newpath	0.063	LB A/A	3-4 lf		
	COC	1	% V/V	3-4 lf		
	Aim	0.025	LB A/A	5-6 lf		
	COC	1	% V/V	5-6 lf		
5	Command	0.4	LB A/A	PRE	91	d
	Clearpath	0.363	LB A/A	PRE		
	COC	1	% V/V	PRE		
	Newpath	0.063	LB A/A	5-6 lf		
	Aim	0.025	LB A/A	5-6 lf		
	COC	1	% V/V	5-6 lf		
6	Command	0.4	LB A/A	PRE	73	e
	Clearpath	0.363	LB A/A	3-4 lf		
	COC	1	% V/V	3-4 lf		
	Newpath	0.063	LB A/A	5-6 lf		
	Aim	0.025	LB A/A	5-6 lf		
	COC	1	% V/V	5-6 lf		

LSU Northeast Research Station

Weed Code
 Crop Code ORYSA
 Part Rated GRAIN C
 Rating Data Type Bu/A
 Rating Unit 12% Mst
 Rating Date 9/22/05
 Trt-Eval Interval
 ARM Action Codes TY1
 # Subsamples, Dec. 0

Trt	Treatment	Rate	Unit	Grow	Stg	16
7	Command	0.4	LB A/A	1-2 lf	150	a
	Clearpath	0.363	LB A/A	1-2 lf		
	COC	1	% V/V	1-2 lf		
	Newpath	0.063	LB A/A	5-6 lf		
	Aim	0.025	LB A/A	5-6 lf		
	COC	1	% V/V	5-6 lf		
8	Newpath	0.063	LB A/A	PRE	0	g
	COC	1	% V/V	PRE		
	Newpath	0.063	LB A/A	5-6 lf		
	COC	1	% V/V	5-6 lf		
9	Command	0.4	LB A/A	PRE	24	f
	Facet	0.33	LB A/A	3-4 lf		
	COC	1	% V/V	3-4 lf		
	Aim	0.025	LB A/A	5-6 lf		
	COC	1	% V/V	5-6 lf		
10	Command	0.4	LB A/A	1-2 lf	97	cd
	Facet	0.33	LB A/A	1-2 lf		
	COC	1	% V/V	1-2 lf		
	Aim	0.025	LB A/A	5-6 lf		
	COC	1	% V/V	5-6 lf		

LSD (P=.05) 13.6
 Bartlett's X2 12.455
 P(Bartlett's X2) 0.132

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 16: TY1 = 16.5*[15]