

## LSU Northeast Research Station

Evaluation of Ricestar HT.

Trial ID: SJ05R028  
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:** Overall, the best barnyardgrass control and rice yield was observed in plots treated with Regiment. Ricestar controlled barnyardgrass and Amazon sprangletop as well as Clincher, the highest Ricestar rates often resulted in better control than 15 oz/A Clincher. Weed control and rice yield generally increased as Ricestar rates were increased from 17 to 32 oz/A.

**CROP AND WEED DESCRIPTION**

Weed Code	Common Name	Scientific Name
1.	ECHCG Barnyardgrass, common	Echinochloa crus-galli
2.	SEBEX Hemp sesbania	Sesbania exaltata
3.	CYPES Nutsedge, Yellow	Cyperus esculentus
4.	LEFPA Sprangletop, Amazon	Leptochloa panicoides

**Crop 1:** ORYSA RICE**Variety:** Cocodrie**Planting Date:** 5/5/05**Planting Method:** DRILLED**Rate:** 90 LB/A**Depth:** 0.25 "**Row Spacing:** 8 "**Spacing Within Row:** 5 "**Seed Bed:** MEDIUM**Soil Moisture:** DRY**Emergence Date:** 5/11/05**SITE AND DESIGN****Plot Width, Unit:** 7 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

## LSU Northeast Research Station

## 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

Overall Moisture Conditions: NORMAL

Closest Weather Station: Northeast Research Station

Distance: 0.25 Unit: mi

## APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	5/6/05	5/23/05	6/6/05	6/16/05
Time of Day:	1:30	1:00	2:00	10:30
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	2-3 lfw	3-4 tw	POTF
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	90 F	90 F	87 F	86 F
% Relative Humidity:	50	48	74	65
Wind Velocity, Unit:	2 S	0 0	5 W	1 S
Soil Temp., Unit:	88 F	93 F	86 F	85 F
Soil Moisture:	wet	wet	damp	flooded
% Cloud Cover:	0	0	100	50

## CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	ORYSA n/a	ORYSA 1-2 lf	ORYSA 2 T	ORYSA 5 T
Stage Scale:	n/a	1 in	7-8 in	14-16 in

## LSU Northeast Research Station

**WEED STAGE AT EACH APPLICATION**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Weed 1 Code, Stage:</b>	ECHCG n/a	ECHCG 1-2 lf	ECHCG 3 T	ECHCG 2-4 T
<b>Stage Scale:</b>	n/a	1 in	3-6 in	6-8 in
<b>Weed 2 Code, Stage:</b>	SEBEX n/a	SEBEX 1-2 lf	SEBEX n/a	SEBEX n/a
<b>Stage Scale:</b>	n/a	1 in	8 in	17 in
<b>Weed 3 Code, Stage:</b>	CYPES n/a	CYPES 1-2 lf	CYPES n/a	CYPES n/a
<b>Stage Scale:</b>	n/a	1 in	8-12 in	17 in
<b>Weed 4 Code, Stage:</b>	LEFPA n/a	LEFPA 1-2 lf	LEFPA 2 T	LEFPA E. boot
<b>Stage Scale:</b>	n/a	1 in	4-6 in	16-17 in

**APPLICATION EQUIPMENT**

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

LSU Northeast Research Station

Evaluation of Ricestar HT.

Trial ID: SJ05R028  
 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	5/26/05	6/4/05	6/24/05	6/30/05	7/12/05
Trt-Eval Interval	20 DA-A	12 DA-B	18 DA-C	14 DA-D	26 DA-D

ARM Action Codes  
 # Subsamples, Dec.

Trt No.	Treatment Name	Rate	Rate Unit	Grow Stg	1	2	3	4	5	
1	Facet	5.3	OZ/A	PRE	95	a 73	bc 57	gh 53	f 53	f
2	Facet	5.3	OZ/A	PRE	95	a 77	b 60	fg 60	ef 60	ef
	Ricestar HT 17		OZ/A	2-3 lfw						
3	Facet	5.3	OZ/A	PRE	95	a 93	a 83	bc 82	cd 82	cd
	Clincher	13.5	OZ/A	2-3 lfw						
	Agridex	1.67	% V/V	2-3 lfw						
4	Facet	5.3	OZ/A	PRE	95	a 93	a 90	ab 92	ab 92	ab
	Regiment	0.4	OZ/A	2-3 lfw						
	Kinetic	0.125	% V/V	2-3 lfw						
5	Facet	5.3	OZ/A	PRE	95	a 73	bc 67	ef 82	cd 82	cd
	Ricestar HT 17		OZ/A	3-4 TW						
6	Facet	5.3	OZ/A	PRE	95	a 73	bc 77	cd 80	cd 80	cd
	Ricestar HT 22		OZ/A	3-4 TW						
7	Facet	5.3	OZ/A	PRE	95	a 72	bc 82	bc 85	bcd 85	bcd
	Ricestar HT 25		OZ/A	3-4 TW						
8	Facet	5.3	OZ/A	PRE	95	a 72	bc 83	bc 87	abc 82	cd
	Ricestar HT 28		OZ/A	3-4 TW						
9	Facet	5.3	OZ/A	PRE	95	a 72	bc 90	ab 92	ab 87	abc
	Ricestar HT 32		OZ/A	3-4 TW						
10	Facet	5.3	OZ/A	PRE	95	a 72	bc 70	de 85	bcd 85	bcd
	Clincher	15	OZ/A	3-4 TW						
	Agridex	1.67	% V/V	3-4 TW						
11	Facet	5.3	OZ/A	PRE	95	a 72	bc 95	a 95	a 95	a
	Regiment	0.5	OZ/A	3-4 TW						
	Kinetic	0.125	% V/V	3-4 TW						
12	Facet	5.3	OZ/A	PRE	95	a 72	bc 55	gh 65	e 65	e
	Ricestar HT 17		OZ/A	POTF						
13	Facet	5.3	OZ/A	PRE	95	a 72	bc 50	h 77	d 77	d
	Ricestar HT 22		OZ/A	POTF						
14	Facet	5.3	OZ/A	PRE	95	a 72	bc 53	gh 80	cd 80	cd
	Ricestar HT 25		OZ/A	POTF						

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	5/26/05	6/4/05	6/24/05	6/30/05	7/12/05
Trt-Eval Interval	20 DA-A	12 DA-B	18 DA-C	14 DA-D	26 DA-D
ARM Action Codes					
# Subsamples, Dec.					

Trt	Treatment	Rate	Grow	1	2	3	4	5
No.	Name	Rate	Unit	Stg				
15	Facet	5.3	OZ/A	PRE	95	a 70	c 52	gh 82
	Ricestar HT 28		OZ/A	POTF				cd 80
16	Facet	5.3	OZ/A	PRE	95	a 72	bc 52	gh 80
	Ricestar HT 32		OZ/A	POTF				cd 83
17	Facet	5.3	OZ/A	PRE	95	a 72	bc 52	gh 87
	Clincher	15	OZ/A	POTF				abc 87
	Agridex	1.67	% V/V	POTF				
18	Facet	5.3	OZ/A	PRE	95	a 72	bc 52	gh 92
	Regiment	0.5	OZ/A	POTF				ab 92
	Kinetic	0.125	% V/V	POTF				
19	Facet	5.3	OZ/A	PRE	95	a 72	bc 52	gh 95
	Regiment	0.6	OZ/A	POTF				a 95
	Kinetic	0.125	% V/V	POTF				a
20	Check				95	a 0	d 0	i 0
								g 0
								g
LSD (P=.05)					0.0	5.1	9.1	10.0
Bartlett's X2					0.0	5.462	17.779	20.529
P(Bartlett's X2)					.	0.996	0.166	0.153
								0.266

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	ECHCG	LEFPA	LEFPA	LEFPA	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	8/10/05	5/26/05	6/24/05	6/30/05	7/12/05
Trt-Eval Interval	55 DA-D	20 DA-A	18 DA-C	14 DA-D	26 DA-D
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Rate	Unit	Grow Stg	6	7	8	9	10
1	Facet	5.3	OZ/A	PRE	53	g 0	a 0	d 0	g 0
2	Facet	5.3	OZ/A	PRE	60	fg 0	a 82	ab 60	e 60
	Ricestar HT 17		OZ/A	2-3 lfw					
3	Facet	5.3	OZ/A	PRE	80	cd 0	a 87	a 80	bc 80
	Clincher	13.5	OZ/A	2-3 lfw					
	Agridex	1.67	% V/V	2-3 lfw					
4	Facet	5.3	OZ/A	PRE	92	ab 0	a 0	d 0	g 0
	Regiment	0.4	OZ/A	2-3 lfw					
	Kinetic	0.125	% V/V	2-3 lfw					
5	Facet	5.3	OZ/A	PRE	85	a-d 0	a 70	c 30	f 30
	Ricestar HT 17		OZ/A	3-4 TW					
6	Facet	5.3	OZ/A	PRE	80	cd 0	a 75	bc 80	bc 80
	Ricestar HT 22		OZ/A	3-4 TW					
7	Facet	5.3	OZ/A	PRE	85	a-d 0	a 80	ab 65	de 65
	Ricestar HT 25		OZ/A	3-4 TW					
8	Facet	5.3	OZ/A	PRE	82	bcd 0	a 85	a 80	bc 80
	Ricestar HT 28		OZ/A	3-4 TW					
9	Facet	5.3	OZ/A	PRE	87	abc 0	a 85	a 87	ab 87
	Ricestar HT 32		OZ/A	3-4 TW					
10	Facet	5.3	OZ/A	PRE	85	a-d 0	a 75	bc 72	cd 72
	Clincher	15	OZ/A	3-4 TW					
	Agridex	1.67	% V/V	3-4 TW					
11	Facet	5.3	OZ/A	PRE	95	a 0	a 0	d 0	g 0
	Regiment	0.5	OZ/A	3-4 TW					
	Kinetic	0.125	% V/V	3-4 TW					
12	Facet	5.3	OZ/A	PRE	65	ef 0	a 0	d 80	bc 80
	Ricestar HT 17		OZ/A	POTF					
13	Facet	5.3	OZ/A	PRE	77	cd 0	a 0	d 80	bc 80
	Ricestar HT 22		OZ/A	POTF					
14	Facet	5.3	OZ/A	PRE	80	cd 0	a 0	d 90	a 90
	Ricestar HT 25		OZ/A	POTF					
15	Facet	5.3	OZ/A	PRE	75	de 0	a 0	d 90	a 90
	Ricestar HT 28		OZ/A	POTF					
16	Facet	5.3	OZ/A	PRE	85	a-d 0	a 0	d 90	a 90
	Ricestar HT 32		OZ/A	POTF					

LSU Northeast Research Station

Weed Code	ECHCG	LEFPA	LEFPA	LEFPA	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	8/10/05	5/26/05	6/24/05	6/30/05	7/12/05
Trt-Eval Interval	55 DA-D	20 DA-A	18 DA-C	14 DA-D	26 DA-D
ARM Action Codes					
# Subsamples, Dec.					

Trt	Treatment	Rate	Unit	Grow	6	7	8	9	10
No.	Name	Rate	Unit	Stg					
17	Facet	5.3	OZ/A	PRE	87	abc 0	a 0	d 87	ab 87
	Clincher	15	OZ/A	POTF					
	Agridex	1.67	% V/V	POTF					
18	Facet	5.3	OZ/A	PRE	92	ab 0	a 0	d 0	g 0
	Regiment	0.5	OZ/A	POTF					
	Kinetic	0.125	% V/V	POTF					
19	Facet	5.3	OZ/A	PRE	95	a 0	a 0	d 0	g 0
	Regiment	0.6	OZ/A	POTF					
	Kinetic	0.125	% V/V	POTF					
20	Check				0	h 0	a 0	d 0	g 0
LSD (P=.05)					10.2	0.0	8.6	8.9	8.9
Bartlett's X2					14.24	0.0	9.962	4.231	4.231
P(Bartlett's X2)					0.432	.	0.076	0.645	0.645

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		
Crop Code			ORYSA	ORYSA
Part Rated		PLATOT P	GRAIN C	GRAIN C
Rating Data Type		CONTROL	lbs/plt	YIELD
Rating Unit		%	11% Mst	BU
Rating Date		8/10/05	9/7/05	9/7/05
Trt-Eval Interval		55 DA-D		
ARM Action Codes				TY1
# Subsamples, Dec.				0

Trt No.	Treatment Name	Rate	Unit	Grow Stg	11	12	13
1	Facet	5.3	OZ/A	PRE	0	g 0	k 0 k
2	Facet	5.3	OZ/A	PRE	60	e 3	j 46 j
	Ricestar HT 17		OZ/A	2-3 lfw			
3	Facet	5.3	OZ/A	PRE	80	bc 5	g 90 g
	Clincher	13.5	OZ/A	2-3 lfw			
	Agridex	1.67	% V/V	2-3 lfw			
4	Facet	5.3	OZ/A	PRE	0	g 6	f 103 f
	Regiment	0.4	OZ/A	2-3 lfw			
	Kinetic	0.125	% V/V	2-3 lfw			
5	Facet	5.3	OZ/A	PRE	30	f 3	i 56 i
	Ricestar HT 17		OZ/A	3-4 TW			
6	Facet	5.3	OZ/A	PRE	80	bc 5	g 89 g
	Ricestar HT 22		OZ/A	3-4 TW			
7	Facet	5.3	OZ/A	PRE	65	de 7	e 119 e
	Ricestar HT 25		OZ/A	3-4 TW			
8	Facet	5.3	OZ/A	PRE	80	bc 7	de 127 de
	Ricestar HT 28		OZ/A	3-4 TW			
9	Facet	5.3	OZ/A	PRE	87	ab 8	c 137 c
	Ricestar HT 32		OZ/A	3-4 TW			
10	Facet	5.3	OZ/A	PRE	72	cd 4	h 71 h
	Clincher	15	OZ/A	3-4 TW			
	Agridex	1.67	% V/V	3-4 TW			
11	Facet	5.3	OZ/A	PRE	0	g 9	b 158 b
	Regiment	0.5	OZ/A	3-4 TW			
	Kinetic	0.125	% V/V	3-4 TW			
12	Facet	5.3	OZ/A	PRE	80	bc 3	ij 53 ij
	Ricestar HT 17		OZ/A	POTF			
13	Facet	5.3	OZ/A	PRE	80	bc 4	h 66 h
	Ricestar HT 22		OZ/A	POTF			
14	Facet	5.3	OZ/A	PRE	90	a 7	de 123 de
	Ricestar HT 25		OZ/A	POTF			
15	Facet	5.3	OZ/A	PRE	90	a 7	de 127 de
	Ricestar HT 28		OZ/A	POTF			
16	Facet	5.3	OZ/A	PRE	90	a 7	d 128 d
	Ricestar HT 32		OZ/A	POTF			

LSU Northeast Research Station

Weed Code	LEFPA		
Crop Code		ORYSA	ORYSA
Part Rated	PLATOT P	GRAIN C	GRAIN C
Rating Data Type	CONTROL	lbs/plt	YIELD
Rating Unit	%	11% Mst	BU
Rating Date	8/10/05	9/7/05	9/7/05
Trt-Eval Interval	55 DA-D		
ARM Action Codes			TY1
# Subsamples, Dec.			0

Trt	Treatment	Rate	Unit	Grow					
No.	Name	Rate	Unit	Stg	11	12	13		
17	Facet	5.3	OZ/A	PRE	87	ab 5	g 84	g	
	Clincher	15	OZ/A	POTF					
	Agridex	1.67	% V/V	POTF					
18	Facet	5.3	OZ/A	PRE	0	g 10	a 180	a	
	Regiment	0.5	OZ/A	POTF					
	Kinetic	0.125	% V/V	POTF					
19	Facet	5.3	OZ/A	PRE	0	g 10	a 175	a	
	Regiment	0.6	OZ/A	POTF					
	Kinetic	0.125	% V/V	POTF					
20	Check				0	g 0	k 0	k	
LSD (P=.05)					8.9	0.5	8.6		
Bartlett's X2					4.231	17.505	17.505		
P(Bartlett's X2)					0.645	0.421	0.421		

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 13: TY1 = 17.6\*[12]