

# LSU Northeast Research Station

Amazon sprangletop control with Regiment plus Ricestar HT.

Trial ID: MR06R104  
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.	CYPCP	Annual sedge	Cyperus compressus
2.	DIGSA	Large crabgrass	Digitaria sanguinalis
3.	ECHCG	Common barnyardgrass	Echinochloa crus-galli
4.	SEBEX	Hemp sesbania	Sesbania exaltata
5.	ORYRU	Wild red rice	Oryza rufipogon
6.	LEFPA	Tighthead sprangletop	Leptochloa panicoides
7.	BRAPP	Broadleaf signalgrass	Brachiaria platyphylla

Crop 1: ORYSA RICE

Variety: Cocodrie

Planting Date: 6/1/06

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

## 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: 14

% OM: 1.3

Texture: Silt loam

% Silt: 70

pH: 5.8

Soil Name: gigger silt loam

% Clay: 16

CEC: 5.8

Fert. Level: EXCELLENT

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## MOISTURE CONDITIONS

	Date	Amount	Unit	Type
1.	6/8/06			Flush
2.	6/13/06			Flush
3.	6/17/06	0.05	IN	RAIN
4.	6/18/06	0.01	IN	RAIN
5.	6/19/06	0.03	IN	RAIN
6.	6/21/06	0.01	IN	RAIN
7.	6/23/06	0.22	IN	RAIN
8.	6/24/06	0.01	IN	RAIN
9.	7/2/06	0.01	IN	RAIN
10.	7/3/06			Fertilize
11.	7/3/06	0.34	IN	RAIN
12.	7/4/06	0.38	IN	RAIN
13.	7/5/06			Flood
14.	7/5/06	0.33	IN	RAIN
15.	7/6/06	0.06	IN	RAIN
16.	7/7/06	0.01	IN	RAIN
17.	7/16/06	0.07	IN	RAIN
18.	7/19/06	1.25	IN	RAIN
19.	7/20/06	0.01	IN	RAIN
20.	7/22/06	1.37	IN	RAIN
21.	7/23/06	0.01	IN	RAIN
22.	7/26/06	0.14	IN	RAIN
23.	7/27/06	0.24	IN	RAIN
24.	7/28/06	0.01	IN	RAIN

Overall Moisture Conditions: Dry

Closest Weather Station: Macon Ridge Research Station Distance: 0.25 Unit: MI

## APPLICATION DESCRIPTION

	A	B	C
Application Date:	6/10/06	6/20/06	7/14/06
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	1-2 LF	3-4 LF	POTF
Applic. Placement:	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	94 F	93 F	96 F
% Relative Humidity:	63	66	71
Wind Velocity, Unit:	2 S	3 S	3 S
Soil Temp., Unit:	67 F	82 F	85 F
Soil Moisture:	DRY	DRY	WET
% Cloud Cover:	30	20	0

## CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ORYSA	ORYSA	ORYSA
Stage Scale:	1-2 lf	4-5 lf	TILL
Height, Unit:	1 in	6 in	16 IN

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## WEED STAGE AT EACH APPLICATION

	A	B	C
<b>Weed 1 Code, Stage:</b>	CYPCP	CYPCP	CYPCP
<b>Stage Scale:</b>	N/A	NA	
<b>Density, Unit:</b>			4-5 IN
<b>Weed 2 Code, Stage:</b>	DIGSA	DIGSA	DIGSA
<b>Stage Scale:</b>	N/A	NA	3 LF
<b>Density, Unit:</b>			1 IN
<b>Weed 3 Code, Stage:</b>	ECHCG	ECHCG	ECHCG
<b>Stage Scale:</b>	2 LF	NA	3 LF
<b>Density, Unit:</b>	.5 IN		1 IN
<b>Weed 4 Code, Stage:</b>	SEBEX	SEBEX	SEBEX
<b>Stage Scale:</b>	COT	NA	
<b>Density, Unit:</b>	.5 IN		6 IN
<b>Weed 5 Code, Stage:</b>	ORYRU	ORYRU	ORYRU
<b>Stage Scale:</b>	1 LF	NA	5 TILL
<b>Density, Unit:</b>	2 IN		10 IN
<b>Weed 6 Code, Stage:</b>	LEFPA	LEFPA	LEFPA
<b>Stage Scale:</b>	1 LF	NA	3LF 3TILL
<b>Density, Unit:</b>	.25 IN		2-8 IN
<b>Weed 7 Code, Stage:</b>	BRAPP	BRAPP	BRAPP
<b>Stage Scale:</b>	1 LF	NA	
<b>Density, Unit:</b>	.25 IN		

## APPLICATION EQUIPMENT

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

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Weed Code		LEFPA	LEFPA	LEFPA	DIGSA	ORYSA	ORYSA
Crop Code		PLATOT P	PLATOT P	PLATOT P	PLATOT P	GRAIN C	GRAIN C
Part Rated		CONTROL	CONTROL	CONTROL	CONTROL	YIELD	YIELD
Rating Data Type		%	%	%	%	lb/plt	BU
Rating Unit		6/20/06	7/20/06	7/25/06	7/20/06	10/3/06	10/3/06
Rating Date							TY1
ARM Action Codes							0
# Subsamples, Dec.							
Trt Treatment	Rate						
No. Name	Unit	1	2	3	4	5	6
1 Facet	8 oz/a	70.0 a	85.0 a	81.7 a	90.0 a	7.37 cd	111 cd
COC	1.25 % v/v						
Regiment	0.4 oz/a						
Ricestar HT	7.5 oz/a						
DYNE-AMIC	5 oz/a						
2 Facet	8 oz/a	70.0 a	91.7 a	88.3 a	93.3 a	9.07 ab	136 ab
COC	1.25 % v/v						
Regiment	0.4 oz/a						
Ricestar HT	10 oz/a						
DYNE-AMIC	5 oz/a						
3 Facet	8 oz/a	70.0 a	96.3 a	78.3 a	84.7 a	9.27 ab	139 ab
COC	1.25 % v/v						
Ricestar HT	7.5 oz/a						
DYNE-AMIC	5 oz/a						
4 Facet	8 oz/a	70.0 a	96.3 a	83.3 a	96.3 a	9.47 a	142 a
COC	1.25 % v/v						
Ricestar HT	10 oz/a						
DYNE-AMIC	5 oz/a						
5 Facet	8 oz/a	70.0 a	96.3 a	85.0 a	96.3 a	9.67 a	145 a
COC	1.25 % v/v						
Ricestar HT	17 oz/a						
DYNE-AMIC	5 oz/a						
6 Facet	8 oz/a	70.0 a	90.0 a	86.7 a	88.3 a	8.03 bc	121 bc
COC	1.25 % v/v						
Regiment	0.4 oz/a						
Ricestar HT	7.5 oz/a						
DYNE-AMIC	5 oz/a						
7 Facet	8 oz/a	70.0 a	90.0 a	76.7 a	81.7 a	6.30 de	95 de
COC	1.25 % v/v						
Regiment	0.4 oz/a						
Ricestar HT	10 oz/a						
DYNE-AMIC	5 oz/a						
8 Facet	8 oz/a	70.0 a	93.3 a	81.7 a	63.3 a	7.47 cd	112 cd
COC	1.25 % v/v						
Ricestar HT	7.5 oz/a						
DYNE-AMIC	5 oz/a						
9 Facet	8 oz/a	70.0 a	95.0 a	83.3 a	86.7 a	7.10 cd	107 cd
COC	1.25 % v/v						
Ricestar HT	10 oz/a						
DYNE-AMIC	5 oz/a						
10 Facet	8 oz/a	70.0 a	95.0 a	81.7 a	78.3 a	6.23 de	94 de
COC	1.25 % v/v						
Ricestar HT	17 oz/a						
DYNE-AMIC	5 oz/a						
11 Untreated		0.0 b	0.0 c	0.0 b	0.0 b	0.00 f	0 f
12 Facet	8 oz/a	70.0 a	63.3 b	83.3 a	90.0 a	9.10 ab	137 ab
COC	1.25 % v/v						
Regiment	0.4 oz/a						
DYNE-AMIC	5 oz/a						
13 Facet	8 oz/a	70.0 a	66.7 b	80.0 a	86.7 a	9.13 ab	137 ab
COC	1.25 % v/v						
Regiment	0.4 oz/a						
DYNE-AMIC	5 oz/a						

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Weed Code	LEFPA	LEFPA	LEFPA	DIGSA	ORYSA	ORYSA
Crop Code	PLATOT P	PLATOT P	PLATOT P	PLATOT P	GRAIN C	GRAIN C
Part Rated	CONTROL	CONTROL	CONTROL	CONTROL	YIELD	YIELD
Rating Data Type	%	%	%	%	lb/plt	BU
Rating Unit	6/20/06	7/20/06	7/25/06	7/20/06	10/3/06	10/3/06
Rating Date						TY1
ARM Action Codes						0
# Subsamples, Dec.						
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Unit	Unit	Unit	Unit	Unit	Unit
14 Facet	8 oz/a	8 oz/a	8 oz/a	8 oz/a	8 oz/a	8 oz/a
COC	1.25 % v/v					
Regiment	0.4 oz/a					
Ricestar HT	17 oz/a					
DYNE-AMIC	5 oz/a					
		70.0 a	90.0 a	88.3 a	90.0 a	9.10 ab
15 Facet	8 oz/a	8 oz/a	8 oz/a	8 oz/a	8 oz/a	8 oz/a
COC	1.25 % v/v					
Regiment	0.4 oz/a					
Ricestar HT	17 oz/a					
DYNE-AMIC	5 oz/a					
		70.0 a	90.0 a	78.3 a	75.0 a	5.80 e
16 Facet	8 oz/a	8 oz/a	8 oz/a	8 oz/a	8 oz/a	8 oz/a
COC	1.25 % v/v					
Ricestar HT	10 oz/a					
		70.0 a	85.0 a	86.7 a	83.2 a	8.90 ab
LSD (P=.05)	0.00	8.57	13.82	21.31	0.891	13.4
Standard Deviation	0.00	5.14	8.29	12.76	0.534	8.0
CV	0.0	6.21	10.67	15.91	7.01	7.01
Bartlett's X2	0.0	11.437	13.342	21.746	30.92	30.918
P(Bartlett's X2)	.	0.492	0.50	0.084	0.006*	0.006*
Replicate F	0.000	5.774	1.848	2.453	0.244	0.244
Replicate Prob(F)	1.0000	0.0076	0.1750	0.1037	0.7852	0.7850
Treatment F	0.000	66.171	19.279	9.709	60.473	60.473
Treatment Prob(F)	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

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

<u>ARM Action Codes</u> TY1 = 15.03333*[5]
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