Information Bulletin 434 **March 2007**

Rice Weed and Pest Management Project

2006 Annual Research Report

Experiment Station
Vance H. Watson, Director

Mississippi Agricultural & Forestry Experiment Station
Robert H. Foglesong, President • Mississippi State University • Vance H. Watson, Vice President

RICE WEED AND PEST MANAGEMENT PROJECT
2006 ANNUAL RESEARCH REPORT

Jason A. Bond, Timothy W. Walker, Nathan W. Buehring,
L. Chris Vaughn, and L. Scott Lanford
Delta Research and Extension Center
Mississippi Agricultural and Forestry Experiment Station
Stoneville, MS 38776

Table of Contents

Introduction iv

Methods for 2006 Rice Weed and Pest Management Research vi

Rice Weed Management Research

06-WS-01 Newpath Rate and Timing Combinations 1

06-WS-02 Newpath Plus Residual Herbicide Rate and Timing Combinations 8

06-WS-03 Tolerance of Rice Varieties to Grasp Herbicide 15

06-WS-06 Grasp Postflood Efficacy 19

06-WS-07 Preflood and Postflood Clincher SF Efficacy 26

06-WS-09 Regiment and Adjuvant Combinations 40

06-WS-10 Regiment and Ricestar HT Combinations 47

06-WS-11 Regiment and Permit Combinations 61

06-WS-12 V-10142 Application Rate and Timing 68

06-WS-13 Early Postemergence IR5878 Weed Control Programs 80

06-WS-14 Rice Tolerance to Postflood Grasp Applications 94

06-WS-15 Prowl Timing 103

06-WS-16 Postemergence Applications of DPX-KF081 107

06-WS-17 Rice Tolerance to DPX-KF081 Applications 115

06-WS-18 Mid Postemergence IR5878 Weed Control Programs 119

06-WS-19 Ricestar HT Programs in Clearfield Rice 130

06-WS-20 Ricestar HT Programs in Conventional Rice 135

06-WS-22 Newpath Plus Prowl H2O Combinations 140

06-WS-23 Rice Tolerance to Midseason Regiment Applications 145

Rice Disease Management Research

06-WS-24 Quadris, Quilt, and Tilt Programs in Rice 148

6906 Fungicide Program Evaluation 152

Appendices

Appendix I Abbreviations 156

Abbreviations Used in Rice Weed Control Research 157

Common Rice Weeds of Mississippi 158

Appendix II List of Chemicals 159

List of Herbicides 160

List of Fungicides 161

List of Spray Adjuvants 161

Appendix III Rainfall Data 162

Rainfall Data for the Delta Research and Extension Center in 2006 163

Introduction

This report summarizes the 2006 rice weed and pest management experiments conducted at the Mississippi State University Delta Research and Extension Center at Stoneville, MS. This information is prepared for the use of industry cooperators, colleagues at other universities, and other interested persons. The interpretation of these data may change after additional experimentation. The information presented is not an endorsement or recommendation, is intended for private use, and may not be reproduced without permission.

Many of the herbicide treatments used in these tests may not be labeled for use, or may not be recommended by Mississippi State University. Always refer to each herbicide label, Mississippi's Weed Control Guidelines (Publication 1532), and Mississippi's Rice Growers Guide (Publication 2255) for recommendations.

Spraying methods are outlined for each individual experiment. Abbreviations, Bayer weed codes, rainfall data, and a list of all chemicals used in this research are listed in the Appendices.

Trade names were used throughout this report for clarity. Where trade names were unavailable, the herbicides are listed by experimental number. Herbicide rates are expressed as units of active ingredient (ai), acid equivalent (ae), or product amount.

The authors gratefully acknowledge the following for their assistance in this research:

Joe E. Street, Head
Delta Research and Extension Center

James T. Robbins, Gabe L. Sciumbato, and the staff of the
Mississippi State University Delta Research and Extension Center

The Mississippi Rice Promotion Board funded substantial portions of the research reported in this publication.

Gary Fioranelli, Cleveland (Chairman)
Gipson Carter, Rolling Fork (Vice-Chairman)
Terry Murrell, Avon (Secretary)
James Allison, Sarah
Curtis Berry, Robinsonville
Nolen Canon, Jr., Tunica
Donald Gant, Merigold
Bill Griffith, Boyle
Randy Howarth, Cleveland
Rex Morgan, Cleveland
Doug Simmons, Hollandale
Gibb Steele, Hollandale

The experiments described in this report were also supported by commercial gifts or grants. The following organizations provided financial support and/or have supplied pesticides or seed for establishment and maintenance of this research:

BASF Corporation
Bayer CropScience
Dow AgroSciences LLC
DuPont Crop Protection
Helena Chemical Company
Isagro USA, Inc.
Jimmy Sanders, Inc.
RiceCo LLC
RiceTec, Inc.
Syngenta Crop Protection
Valent USA Corporation

The support of the Rice Weed and Pest Management Project at the Delta Research and Extension Center by these organizations is greatly appreciated.

Methods for 2006 Rice Weed and Pest Management Research

Crop injury and herbicide efficacy were visually estimated on a scale of 0 to 100% where 0 indicates no crop injury or no weed control and 100 is equal to crop death or complete weed control. The ratings were tabulated and means computed for each weed species having sufficient density and distribution in the experimental area. Rice yield was determined by harvesting the four center rows of each plot.

Data presented in this report are summarized and statistically analyzed with the Agriculture Research Manager software program by Gylling Data Management, Inc., Brookings, South Dakota.

Mississippi State University Delta Research and Extension Center
Newpath Rate and Timing Combinations

Trial ID: 06-WS-01
Location: DREC - Red Rice Area

Objective:
To determine the effectiveness of single and sequential applications of Newpath for control of barnyardgrass, red rice, and Amazon sprangletop.

Conclusions:
This experiment was designed to evaluate different combinations of Newpath rates applied to 1- to 2-leaf rice (EPOST), 3- to 4-leaf rice (MPOST), or 4-leaf to 1-tiller rice (LPOST). Up to 12 FL OZ/A was applied in single and/or split applications. Weeds evaluated included barnyardgrass (ECHCG), Amazon sprangletop (LEFPA), and red rice (ORYSA). The Beyond treatments were not applied and the experiment was not harvested because LEFPA infestation was severe and LEFPA control from most treatments was poor. ECHCG and ORYSA were controlled at least 85 and 83%, respectively, by all treatments 15 days following LPOST application. All treatments including sequential applications of Newpath controlled these species at least 90% 15 days following LPOST applications. For control of ECHCG and ORYSA, single applications of Newpath at 8 FL OZ/A were generally less effective than single applications of Newpath at 12 FL OZ/A or sequential applications of Newpath at 4 or 6 FL OZ/A. At 15 day following LPOST application, only sequential applications of Newpath at 4 or 6 FL OZ/A controlled LEFPA greater than 65%. Other herbicides should be included in a Clearfield rice weed control program where LEFPA is troublesome.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: CL 131 **Description:** Clearfield variety
BBCH Scale: BRIC **Planting Date:** 18-May-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 73 F
Soil Moisture: Adequate **Emergence Date:** 25-May-06

Pest Description

Pest 1 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Barnyardgrass

Pest 2 Type: W **Code:** LEFPA *Leptochloa panicoides*
Common Name: Amazon sprangletop

Pest 3 Type: W **Code:** ORYSA *Oryza sativa*
Common Name: Red rice

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Stale seedbed
Replications: 4 **Study Design:** Randomized Complete Block
% Slope: 0.1 **Soil Drainage:** F Fair

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	16-May-06	Glystar Plus	4	L	1	QT/A
2.	12-Jun-06	Aim	2	EC	1.67	FL OZ/A
3.	15-Jun-06	Karate Z	2.08	CS	2	FL OZ/A
4.	15-Jun-06	Urea (46:0:0)	46	GR	325	LB/A

Mississippi State University Delta Research and Extension Center
Newpath Rate and Timing Combinations

Trial ID: 06-WS-01
Location: DREC - Red Rice Area

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 2 **Unit:** MI

	Date	Type
1.	23-May-06	Flush
2.	7-Jun-06	Flush
3.	16-Jun-06	Flood

Application Description

	A	B	C
Application Date:	3-Jun-06	9-Jun-06	15-Jun-06
Time of Day:	11:00 am	8:30 am	12:30 pm
Application Method:	Broadcast	Broadcast	Broadcast
Application Timing:	EPOST	MPOST	LPOST
Application Placement:	Foliar	Foliar	Foliar
Applied By:	JAB	JAB	JAB
Air Temperature, Unit:	86 F	92 F	96 F
% Relative Humidity:	50	60	54
Wind Velocity, Unit:	1 MPH	0 MPH	0 MPH
Wind Direction:	NW		
Dew Presence (Y/N):	N	Y	N
Soil Temperature, Unit:	76 F	78 F	
Soil Moisture:	Excessive	Excessive	Adequate
% Cloud Cover:	0	0	25

Crop Stage At Each Application

	A	B	C
Crop 1 Code:	ORYSA	ORYSA	ORYSA
Stage Majority, Percent:	2 leaf	4 leaf	2 tiller
Stage Minimum, Percent:	2 leaf	3 leaf	1 tiller
Stage Maximum, Percent:	3 leaf	4 leaf	2 tiller
Height, Unit:	5 IN	6 IN	8 IN
Height Minimum, Maximum:	4 6	5 7	7 9

Mississippi State University Delta Research and Extension Center
Newpath Rate and Timing Combinations

Trial ID: 06-WS-01
Location: DREC - Red Rice Area

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	ECHCG W	ECHCG W	ECHCG W
Stage Majority, Percent:	2 leaf	3 leaf	1 til
Stage Minimum, Percent:	1 leaf	2 leaf	4 leaf
Stage Maximum, Percent:	2 leaf	3 leaf	1 till
Height, Unit:	2 IN	2 IN	4 IN
Height Minimum, Maximum:	1 2	3 3	3 4
Density, Unit:	18 FT2	18 FT2	10 FT2
Pest 2 Code, Disc., Scale:	LEFPA W	LEFPA W	LEFPA W
Stage Majority, Percent:		1 leaf	3 leaf
Stage Minimum, Percent:		1 leaf	2 leaf
Stage Maximum, Percent:		2 leaf	3 leaf
Height, Unit:		2 IN	4 IN
Height Minimum, Maximum:		1 2	4 5
Density, Unit:		5 FT2	15 FT2
Pest 3 Code, Disc., Scale:	ORYSA W	ORYSA W	ORYSA W
Stage Majority, Percent:	2 leaf	4 leaf	4 leaf
Stage Minimum, Percent:	1 leaf	3 leaf	4 leaf
Stage Maximum, Percent:	3 leaf	5 leaf	1 til
Height, Unit:	3 IN	5 IN	5 IN
Height Minimum, Maximum:	2 4	4 5	4 5
Density, Unit:	12 FT2	7 FT2	8 FT2

Application Equipment

	A	B	C
Appl. Equipment:	CO2 backpack	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	36 PSI	29 PSI	25 PSI
Nozzle Type:	XR	XR	DG
Nozzle Size:	110015VS	11001VS	110015VS
Nozzle Spacing, Unit:	20 IN	16 IN	16 IN
Nozzles/Row:	3	4	4
Boom Length, Unit:	60 IN	64 IN	64 IN
Ground Speed, Unit:	3 MPH	2 MPH	3 MPH
Carrier:	Water	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

Date	**By**	**Notes**
15-Jun-06	JAB	Amazon sprangletop emerged afer application A (EPOST).
9-Jun-06	JAB	Weed counts and sizes recorded from plots not receiving sequential Newpath applications.
30-Jun-06	JAB	Beyond was not applied because plots had become overgrown with Amazon sprangletop.

Mississippi State University Delta Research and Extension Center
Newpath Rate and Timing Combinations

Trial ID: 06-WS-01
Location: DREC - Red Rice Area

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	15-Jun-06 Rice Injury % 12 0 12 DA-A 1	23-Jun-06 Rice Injury % 20 8 14 DA-B 2	30-Jun-06 Rice Injury % 27 15 15 DA-C 3	ECHCG 15-Jun-06 Control % 12 0 12 DA-A 4	ECHCG 23-Jun-06 Control % 20 8 14 DA-B 5	ECHCG 30-Jun-06 Control % 27 15 15 DA-C 6	ORYSA 15-Jun-06 Control % 12 0 12 DA-A 7
1	Nontreated							0 a	0 a	0 a	0 c	0 g	0 d	0 c
2	Newpath	2	AS	4	FL OZ/A	EPOST	A	0 a	0 a	0 a	96 a	96 ab	97 a	86 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Newpath	2	AS	4	FL OZ/A	MPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
3	Newpath	2	AS	6	FL OZ/A	EPOST	A	0 a	0 a	0 a	96 a	96 ab	98 a	88 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Newpath	2	AS	6	FL OZ/A	MPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
4	Newpath	2	AS	4	FL OZ/A	EPOST	A	0 a	0 a	0 a	98 a	99 a	99 a	88 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Newpath	2	AS	4	FL OZ/A	MPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
	Newpath	2	AS	4	FL OZ/A	LPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C							
5	Newpath	2	AS	4	FL OZ/A	EPOST	A	0 a	0 a	0 a	95 ab	96 ab	97 a	88 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Newpath	2	AS	4	FL OZ/A	MPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D							
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D							
6	Newpath	2	AS	6	FL OZ/A	EPOST	A	0 a	0 a	0 a	96 a	97 a	98 a	90 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Newpath	2	AS	6	FL OZ/A	MPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D							
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D							
7	Newpath	2	AS	4	FL OZ/A	EPOST	A	0 a	0 a	0 a	94 ab	98 a	97 a	86 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Newpath	2	AS	4	FL OZ/A	MPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
	Newpath	2	AS	4	FL OZ/A	LPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C							
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D							
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D							
8	Newpath	2	AS	4	FL OZ/A	EPOST	A	0 a	0 a	0 a	95 ab	95 abc	94 ab	91 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Newpath	2	AS	4	FL OZ/A	MPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
	Newpath	2	AS	4	FL OZ/A	PD+14 d	D							
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D							
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D							
9	Newpath	2	AS	8	FL OZ/A	EPOST	A	0 a	0 a	0 a	90 b	86 de	89 bc	88 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
10	Newpath	2	AS	8	FL OZ/A	MPOST	B		0 a	0 a		85 de	95 ab	
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
11	Newpath	2	AS	8	FL OZ/A	LPOST	C		0 a	0 a		83 ef	85 c	
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C							
12	Newpath	2	AS	8	FL OZ/A	EPOST	A	0 a	0 a	0 a	96 a	89 cde	89 bc	88 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D							
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D							

Mississippi State University Delta Research and Extension Center
Newpath Rate and Timing Combinations

Trial ID: 06-WS-01
Location: DREC - Red Rice Area

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	15-Jun-06 Rice Injury % 12 0 12 DA-A 1	23-Jun-06 Rice Injury % 20 8 14 DA-B 2	30-Jun-06 Rice Injury % 27 15 15 DA-C 3	ECHCG 15-Jun-06 Control % 12 0 12 DA-A 4	ECHCG 23-Jun-06 Control % 20 8 14 DA-B 5	ECHCG 30-Jun-06 Control % 27 15 15 DA-C 6	ORYSA 15-Jun-06 Control % 12 0 12 DA-A 7
13	Newpath	2	AS	8	FL OZ/A	MPOST	B		0 a	0 a		85 de	94 ab	
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D							
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D							
14	Newpath	2	AS	8	FL OZ/A	LPOST	C		0 a	0 a		78 f	95 ab	
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C							
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D							
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D							
15	Newpath	2	AS	12	FL OZ/A	EPOST	A	0 a	0 a	0 a	93 ab	90 bcd	94 ab	83 b
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
16	Newpath	2	AS	12	FL OZ/A	MPOST	B		0 a	0 a		86 de	85 c	
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
17	Newpath	2	AS	12	FL OZ/A	LPOST	C		0 a	0 a		88 de	95 ab	
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C							
18	Newpath	2	AS	12	FL OZ/A	EPOST	A	0 a	0 a	0 a	94 ab	90 bcd	93 ab	91 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D							
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D							
19	Newpath	2	AS	12	FL OZ/A	MPOST	B		0 a	0 a		90 bcd	95 ab	
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D							
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D							
20	Newpath	2	AS	12	FL OZ/A	LPOST	C		0 a	0 a		84 def	96 ab	
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C							
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D							
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D							
Standard Deviation								0.0	0.0	0.0	3.5	4.2	4.6	3.8
CV								0.0	0.0	0.0	4.02	4.93	5.17	4.72

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Newpath Rate and Timing Combinations

Trial ID: 06-WS-01
Location: DREC - Red Rice Area

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	ORYSA 23-Jun-06 Control % 20 8 14 DA-B 8	ORYSA 30-Jun-06 Control % 27 15 15 DA-C 9	LEFPA 23-Jun-06 Control % 20 8 14 DA-B 10	LEFPA 30-Jun-06 Control % 27 15 15 DA-C 11
1	Nontreated							0 h	0 e	0 h	0 h
2	Newpath	2	AS	4	FL OZ/A	EPOST	A	91 ab	97 ab	75 ab	72 abc
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
	Newpath	2	AS	4	FL OZ/A	MPOST	B				
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B				
3	Newpath	2	AS	6	FL OZ/A	EPOST	A	91 ab	98 a	83 a	89 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
	Newpath	2	AS	6	FL OZ/A	MPOST	B				
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B				
4	Newpath	2	AS	4	FL OZ/A	EPOST	A	95 a	99 a	89 a	87 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
	Newpath	2	AS	4	FL OZ/A	MPOST	B				
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B				
	Newpath	2	AS	4	FL OZ/A	LPOST	C				
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C				
5	Newpath	2	AS	4	FL OZ/A	EPOST	A	85 abc	97 ab	75 ab	78 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
	Newpath	2	AS	4	FL OZ/A	MPOST	B				
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B				
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D				
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D				
6	Newpath	2	AS	6	FL OZ/A	EPOST	A	88 ab	98 a	86 a	89 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
	Newpath	2	AS	6	FL OZ/A	MPOST	B				
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B				
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D				
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D				
7	Newpath	2	AS	4	FL OZ/A	EPOST	A	93 a	97 ab	84 a	87 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
	Newpath	2	AS	4	FL OZ/A	MPOST	B				
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B				
	Newpath	2	AS	4	FL OZ/A	LPOST	C				
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C				
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D				
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D				
8	Newpath	2	AS	4	FL OZ/A	EPOST	A	86 ab	90 bcd	73 ab	70 a-d
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
	Newpath	2	AS	4	FL OZ/A	MPOST	B				
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B				
	Newpath	2	AS	4	FL OZ/A	PD+14 d	D				
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D				
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D				
9	Newpath	2	AS	8	FL OZ/A	EPOST	A	81 a-d	88 cd	45 cd	50 c-f
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
10	Newpath	2	AS	8	FL OZ/A	MPOST	B	69 def	91 abc	39 cde	53 c-f
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B				
11	Newpath	2	AS	8	FL OZ/A	LPOST	C	63 fg	88 cd	30 def	45 ef
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C				
12	Newpath	2	AS	8	FL OZ/A	EPOST	A	88 ab	93 abc	40 cde	49 def
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D				
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D				

Mississippi State University Delta Research and Extension Center
Newpath Rate and Timing Combinations

Trial ID: 06-WS-01
Location: DREC - Red Rice Area

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	ORYSA 23-Jun-06 Control % 20 14 DA-B 8	ORYSA 30-Jun-06 Control % 27 15 DA-C 9	LEFPA 23-Jun-06 Control % 20 14 DA-B 10	LEFPA 30-Jun-06 Control % 27 15 DA-C 11
13	Newpath	2	AS	8	FL OZ/A	MPOST	B	72 c-f	83 d	12 fgh	21 g
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B				
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D				
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D				
14	Newpath	2	AS	8	FL OZ/A	LPOST	C	50 g	88 cd	5 gh	20 g
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C				
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D				
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D				
15	Newpath	2	AS	12	FL OZ/A	EPOST	A	86 ab	93 abc	48 cd	65 b-e
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
16	Newpath	2	AS	12	FL OZ/A	MPOST	B	70 def	83 d	25 d-g	35 fg
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B				
17	Newpath	2	AS	12	FL OZ/A	LPOST	C	66 ef	91 abc	38 cde	61 b-e
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C				
18	Newpath	2	AS	12	FL OZ/A	EPOST	A	90 ab	93 abc	58 bc	75 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D				
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D				
19	Newpath	2	AS	12	FL OZ/A	MPOST	B	78 b-e	95 abc	54 bc	69 a-d
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B				
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D				
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D				
20	Newpath	2	AS	12	FL OZ/A	LPOST	C	60 fg	92 abc	20 e-h	51 c-f
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C				
	Beyond	1	AS	5	FL OZ/A	PD+14 d	D				
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	D				
Standard Deviation								8.7	4.7	14.5	13.7
CV								11.61	5.38	29.71	23.55

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Newpath Plus Residual Herbicide Rate and Timing Combinations

Trial ID: 06-WS-02
Location: DREC - Red Rice Area

Objective:
To evaluate residual herbicides in combination with Newpath at a DPRE or EPOST application timing.

Conclusions:
This experiment was conducted to document the benefit of residual herbicides in a Clearfield rice production system and to determine the proper application timing [delayed-preemergence (DPRE) or applied to 1- to 2-leaf rice (EPOST)] for these residual herbicides when applied in tank mixture with Newpath and followed with a second Newpath application at 3- to 4-leaf rice (MPOST). Weeds evaluated included barnyardgras (ECHCG), red rice (ORYSA), and Amazon sprangletop (LEFPA). ECHCG was controlled at least 92% 11 days following DPRE application. ECHCG was not controlled by the EPOST residual herbicides until Newpath MPOST was applied. By 27 days after Newpath MPOST, ECHCG control from DPRE or EPOST residual herbicides followed by Newpath MPOST was at least 94%. ORYSA was also controlled at least 90% by all treatments 27 days following Newpath MPOST. In general, LEFPA was controlled less when residual herbicides were applied in tank mixture with Newpath EPOST compared with DPRE applications. Prowl EC or Prowl H2O provided best residual control of LEFPA. In areas where LEFPA is troublesome, residual herbicides should be applied prior to LEFPA emergence in a Clearfield rice production system.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: CL131 **Description:** Clearfield variety
BBCH Scale: BRIC **Planting Date:** 18-May-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 73 F
Soil Moisture: Adequate **Emergence Date:** 25-May-06

Pest Description

Pest 1 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Barnyardgrass

Pest 2 Type: W **Code:** ORYSA *Oryza sativa*
Common Name: Red rice

Pest 3 Type: W **Code:** LEFPA Leptochloa panicoides
Common Name: Amazon sprangletop

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Complete Block
% Slope: 0.1 **Soil Drainage:** F Fair

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	16-May-06	GlyStar Plus	4	L	1	QT/A
2.	12-Jun-06	Aim	2	EC	1.67	FL OZ/A
3.	15-Jun-06	Karate Z	2.08	CS	2	FL OZ/A
4.	15-Jun-06	Urea (46:0:0)	46	GR	325	LB/A

Mississippi State University Delta Research and Extension Center
Newpath Plus Residual Herbicide Rate and Timing Combinations

Trial ID: 06-WS-02
Location: DREC - Red Rice Area

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 2 **Unit:** MI

	Date	Type
1.	23-May-06	Flush
2.	7-Jun-06	Flush
3.	16-Jun-06	Flood
4.	5-Sep-06	Drain

Application Description

	A	B	C
Application Date:	23-May-06	3-Jun-06	9-Jun-06
Time of Day:	2:30 pm	11:00 am	8:30 am
Application Method:	Broadcast	Broadcast	Broadcast
Application Timing:	DPRE	EPOST	MPOST
Application Placement:	Soil	Foliar	Foliar
Applied By:	JAB	JAB	JAB
Air Temperature, Unit:	94 F	86 F	92 C
% Relative Humidity:	72	60	60
Wind Velocity, Unit:	1 MPH	2 MPH	0 KPH
Wind Direction:	SW	NW	
Dew Presence (Y/N):	N	N	Y
Soil Temperature, Unit:	72 F	76 F	77 F
Soil Moisture:	Adequate	Excessive	Excessive
% Cloud Cover:	50	0	0

Crop Stage At Each Application

	A	B	C
Crop 1 Code:	ORYSA	ORYSA	ORYSA
Stage Majority, Percent:		2 leaf	4 leaf
Stage Minimum, Percent:		2 leaf	3 leaf
Stage Maximum, Percent:		3 leaf	4 leaf
Height, Unit:		5 IN	8 IN
Height Minimum, Maximum:		4 6	7 8

Mississippi State University Delta Research and Extension Center
Newpath Plus Residual Herbicide Rate and Timing Combinations

Trial ID: 06-WS-02
Location: DREC - Red Rice Area

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	ECHCG W	ECHCG W	ECHCG W
Stage Majority, Percent:		1 leaf	2 leaf
Stage Minimum, Percent:		1 leaf	2 leaf
Stage Maximum, Percent:		2 leaf	3 leaf
Height, Unit:		1 IN	3 IN
Height Minimum, Maximum:		1 1	2 3
Density, Unit:		15 FT2	3 FT2
Pest 2 Code, Disc., Scale:	ORYSA W	ORYSA W	ORYSA W
Stage Majority, Percent:		2 leaf	4 leaf
Stage Minimum, Percent:		1 leaf	3 leaf
Stage Maximum, Percent:		3 leaf	4 leaf
Height, Unit:		3 IN	6 IN
Height Minimum, Maximum:		2 4	5 6
Density, Unit:		12 FT2	3 FT2
Pest 3 Code, Disc., Scale:	LEFPA	LEFPA	LEFPA
Stage Majority, Percent:			2 leaf
Stage Minimum, Percent:			2 leaf
Stage Maximum, Percent:			3 leaf
Height, Unit:			3 IN
Height Minimum, Maximum:			2 3
Density, Unit:			16 FT2

Application Equipment

	A	B	C
Appl. Equipment:	CO2 backpack	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	39 PSI	36 PSI	29 PSI
Nozzle Type:	AI	XR	XR
Nozzle Size:	1100155VS	110015VS	11001VS
Nozzle Spacing, Unit:	20 IN	20 IN	16 IN
Boom Length, Unit:	60 IN	60 IN	64 IN
Boom Height, Unit:	16 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	2 MPH
Carrier:	Water	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

Date	**By**	**Notes**
27-Sep-06	JAB	Experiment was not harvested due to Amazon sprangletop infestations.

Mississippi State University Delta Research and Extension Center
Newpath Plus Residual Herbicide Rate and Timing Combinations

Trial ID: 06-WS-02
Location: DREC - Red Rice Area

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	3-Jun-06 Rice Injury % 11 0 11 DA-A	9-Jun-06 Rice Injury % 17 0 6 DA-B	ECHCG 3-Jun-06 Control % 11 0 11 DA-A	ECHCG 9-Jun-06 Control % 17 0 6 DA-B	ECHCG 23-Jun-06 Control % 31 14 14 DA-C	ECHCG 6-Jul-06 Control % 44 27 27 DA-C	ECHCG 8-Aug-06 Control % 77 60 60 DA-C
								1	2	8	9	10	11	12
1	Nontreated							0 a	0 a	0 b	0 e	0 c	0 d	0 c
2	Command	3	ME	17	FL OZ/A	DPRE	A	0 a	0 a	95 a	95 a	96 a	96 abc	98 a
	Newpath	2	AS	4	FL OZ/A	DPRE	A							
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A							
	Newpath	2	AS	4	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
3	Command	3	ME	17	FL OZ/A	DPRE	A	1 a	0 a	94 a	96 a	96 a	98 ab	98 a
	Newpath	2	AS	6	FL OZ/A	DPRE	A							
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A							
	Newpath	2	AS	6	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
4	Facet	75	DF	0.5	LB/A	DPRE	A	0 a	0 a	93 a	93 a	95 ab	97 ab	98 a
	Newpath	2	AS	4	FL OZ/A	DPRE	A							
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A							
	Newpath	2	AS	4	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
5	Facet	75	DF	0.5	LB/A	DPRE	A	2 a	0 a	95 a	93 a	94 b	98 ab	98 a
	Newpath	2	AS	6	FL OZ/A	DPRE	A							
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A							
	Newpath	2	AS	6	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
6	Clearpath	75	DF	0.5	LB/A	DPRE	A	2 a	0 a	93 a	89 a	95 ab	96 abc	97 ab
	Newpath	2	AS	4	FL OZ/A	DPRE	A							
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A							
	Newpath	2	AS	4	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
7	Clearpath	75	DF	0.5	LB/A	DPRE	A	5 a	0 a	92 a	96 a	95 ab	98 ab	98 a
	Newpath	2	AS	6	FL OZ/A	DPRE	A							
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A							
	Newpath	2	AS	6	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
8	Prowl EC	3.3	EC	38.8	FL OZ/A	DPRE	A	3 a	0 a	93 a	95 a	95 ab	99 a	98 a
	Newpath	2	AS	4	FL OZ/A	DPRE	A							
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A							
	Newpath	2	AS	4	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
9	Prowl EC	3.3	EC	38.8	FL OZ/A	DPRE	A	1 a	0 a	93 a	93 a	95 ab	98 ab	98 a
	Newpath	2	AS	6	FL OZ/A	DPRE	A							
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A							
	Newpath	2	AS	6	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
10	Prowl H2O	3.8	CS	33.7	FL OZ/A	DPRE	A	0 a	0 a	94 a	95 a	94 b	98 ab	98 a
	Newpath	2	AS	4	FL OZ/A	DPRE	A							
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A							
	Newpath	2	AS	4	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
11	Prowl H2O	3.8	CS	33.7	FL OZ/A	DPRE	A	0 a	0 a	94 a	75 b	95 ab	99 a	99 a
	Newpath	2	AS	6	FL OZ/A	DPRE	A							
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A							
	Newpath	2	AS	6	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							

Mississippi State University Delta Research and Extension Center
Newpath Plus Residual Herbicide Rate and Timing Combinations

Trial ID: 06-WS-02
Location: DREC - Red Rice Area

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	3-Jun-06 Rice Injury % 11 0 11 DA-A 1	9-Jun-06 Rice Injury % 17 0 6 DA-B 2	ECHCG 3-Jun-06 Control % 11 0 11 DA-A 8	ECHCG 9-Jun-06 Control % 17 0 6 DA-B 9	ECHCG 23-Jun-06 Control % 31 14 14 DA-C 10	ECHCG 6-Jul-06 Control % 44 27 27 DA-C 11	ECHCG 8-Aug-06 Control % 77 60 60 DA-C 12
12	Command	3	ME	17	FL OZ/A	EPOST	B		0 a		54 cd	95 ab	96 abc	97 ab
	Newpath	2	AS	4	FL OZ/A	EPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B							
	Newpath	2	AS	4	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
13	Command	3	ME	17	FL OZ/A	EPOST	B		0 a		60 c	95 ab	96 abc	98 a
	Newpath	2	AS	6	FL OZ/A	EPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B							
	Newpath	2	AS	6	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
14	Facet	75	DF	0.413	LB/A	EPOST	B		0 a		48 d	95 ab	95 bc	95 b
	Newpath	2	AS	4	FL OZ/A	EPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B							
	Newpath	2	AS	4	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
15	Facet	75	DF	0.413	LB/A	EPOST	B		0 a		48 d	95 ab	97 ab	98 a
	Newpath	2	AS	6	FL OZ/A	EPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B							
	Newpath	2	AS	6	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
16	Clearpath	75	DF	0.5	LB/A	EPOST	B		0 a		43 d	94 b	94 c	96 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B							
	Newpath	2	AS	4	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
17	Clearpath	75	DF	0.5	LB/A	EPOST	B		0 a		50 cd	95 ab	97 ab	97 ab
	Newpath	2	AS	2	FL OZ/A	EPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B							
	Newpath	2	AS	6	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
18	Prowl EC	3.3	EC	38.8	FL OZ/A	EPOST	B		0 a		44 d	95 ab	97 ab	97 ab
	Newpath	2	AS	4	FL OZ/A	EPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B							
	Newpath	2	AS	4	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
19	Prowl EC	3.3	EC	38.8	FL OZ/A	EPOST	B		0 a		44 d	95 ab	97 ab	99 a
	Newpath	2	AS	6	FL OZ/A	EPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B							
	Newpath	2	AS	6	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
20	Prowl H2O	3.8	CS	33.7	FL OZ/A	EPOST	B		0 a		53 cd	95 ab	97 ab	96 ab
	Newpath	2	AS	4	FL OZ/A	EPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B							
	Newpath	2	AS	4	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
21	Prowl H2O	3.8	CS	33.7	FL OZ/A	EPOST	B		0 a		46 d	95 ab	97 ab	97 ab
	Newpath	2	AS	6	FL OZ/A	EPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B							
	Newpath	2	AS	6	FL OZ/A	MPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C							
Standard Deviation								2.2	0.0	2.4	7.6	1.1	1.8	1.7
CV								181.08	0.0	2.89	11.39	1.24	1.99	1.87

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Newpath Plus Residual Herbicide Rate and Timing Combinations

Trial ID: 06-WS-02
Location: DREC - Red Rice Area

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	ORYSA 3-Jun-06 Control % 11 0 11 DA-A 13	ORYSA 9-Jun-06 Control % 17 0 6 DA-B 14	ORYSA 23-Jun-06 Control % 31 14 14 DA-C 15	ORYSA 6-Jul-06 Control % 44 27 27 DA-C 16	ORYSA 8-Aug-06 Control % 77 60 60 DA-C 17	LEFPA 23-Jun-06 Control % 31 14 14 DA-C 18	LEFPA 6-Jul-06 Control % 44 27 27 DA-C 19	LEFPA 8-Aug-06 Control % 77 60 60 DA-C 20
1	Nontreated							0 c	0 d	0 d	0 d	0 b	0 e	0 g	0 h
2	Command	3	ME	17	FL OZ/A	DPRE	A	83 ab	81 ab	93 ab	93 abc	93 a	92 a	85 abc	51 cde
	Newpath	2	AS	4	FL OZ/A	DPRE	A								
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A								
	Newpath	2	AS	4	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
3	Command	3	ME	17	FL OZ/A	DPRE	A	85 ab	86 a	91 abc	94 abc	95 a	93 a	84 abc	54 bcd
	Newpath	2	AS	6	FL OZ/A	DPRE	A								
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A								
	Newpath	2	AS	6	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
4	Facet	75	DF	0.5	LB/A	DPRE	A	84 ab	86 a	90 abc	94 abc	95 a	80 abc	69 cde	41 de
	Newpath	2	AS	4	FL OZ/A	DPRE	A								
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A								
	Newpath	2	AS	4	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
5	Facet	75	DF	0.5	LB/A	DPRE	A	89 a	83 ab	91 abc	93 abc	93 a	81 abc	75 b-e	45 cde
	Newpath	2	AS	6	FL OZ/A	DPRE	A								
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A								
	Newpath	2	AS	6	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
6	Clearpath	75	DF	0.5	LB/A	DPRE	A	80 ab	83 ab	93 ab	93 abc	91 a	88 ab	80 a-e	45 cde
	Newpath	2	AS	4	FL OZ/A	DPRE	A								
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A								
	Newpath	2	AS	4	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
7	Clearpath	75	DF	0.5	LB/A	DPRE	A	76 b	74 ab	95 a	95 ab	96 a	89 ab	85 abc	70 abc
	Newpath	2	AS	6	FL OZ/A	DPRE	A								
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A								
	Newpath	2	AS	6	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
8	Prowl EC	3.3	EC	38.8	FL OZ/A	DPRE	A	81 ab	86 a	94 a	96 a	95 a	93 a	95 a	79 ab
	Newpath	2	AS	4	FL OZ/A	DPRE	A								
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A								
	Newpath	2	AS	4	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
9	Prowl EC	3.3	EC	38.8	FL OZ/A	DPRE	A	85 ab	81 ab	94 a	95 ab	91 a	93 a	90 ab	81 a
	Newpath	2	AS	6	FL OZ/A	DPRE	A								
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A								
	Newpath	2	AS	6	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
10	Prowl H2O	3.8	CS	33.7	FL OZ/A	DPRE	A	81 ab	85 a	94 a	95 ab	96 a	94 a	95 a	80 a
	Newpath	2	AS	4	FL OZ/A	DPRE	A								
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A								
	Newpath	2	AS	4	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
11	Prowl H2O	3.8	CS	33.7	FL OZ/A	DPRE	A	85 ab	66 b	95 a	95 ab	92 a	94 a	94 a	86 a
	Newpath	2	AS	6	FL OZ/A	DPRE	A								
	Agri-Dex		L	19.2	FL OZ/A	DPRE	A								
	Newpath	2	AS	6	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								

Mississippi State University Delta Research and Extension Center
Newpath Plus Residual Herbicide Rate and Timing Combinations

Trial ID: 06-WS-02
Location: DREC - Red Rice Area

Pest Code								ORYSA	ORYSA	ORYSA	ORYSA	ORYSA	LEFPA	LEFPA	LEFPA
Rating Date								3-Jun-06	9-Jun-06	23-Jun-06	6-Jul-06	8-Aug-06	23-Jun-06	6-Jul-06	8-Aug-06
Rating Data Type								Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%	%	%
Days After First/Last Applic.								11 0	17 0	31 14	44 27	77 60	31 14	44 27	77 60
Trt-Eval Interval								11 DA-A	6 DA-B	14 DA-C	27 DA-C	60 DA-C	14 DA-C	27 DA-C	60 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	13	14	15	16	17	18	19	20
12	Command	3	ME	17	FL OZ/A	EPOST	B		40 c	91 abc	93 abc	93 a	74 bc	64 e	25 e-h
	Newpath	2	AS	4	FL OZ/A	EPOST	B								
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B								
	Newpath	2	AS	4	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
13	Command	3	ME	17	FL OZ/A	EPOST	B		46 c	94 a	95 ab	95 a	90 a	79 a-e	46 cde
	Newpath	2	AS	6	FL OZ/A	EPOST	B								
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B								
	Newpath	2	AS	6	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
14	Facet	75	DF	0.413	LB/A	EPOST	B		35 c	88 c	90 c	94 a	39 d	20 f	13 fgh
	Newpath	2	AS	4	FL OZ/A	EPOST	B								
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B								
	Newpath	2	AS	4	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
15	Facet	75	DF	0.413	LB/A	EPOST	B		34 c	93 ab	95 ab	94 a	80 abc	73 cde	43 cde
	Newpath	2	AS	6	FL OZ/A	EPOST	B								
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B								
	Newpath	2	AS	6	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
16	Clearpath	75	DF	0.5	LB/A	EPOST	B		33 c	89 bc	91 bc	95 a	30 d	18 f	5 gh
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B								
	Newpath	2	AS	4	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
17	Clearpath	75	DF	0.5	LB/A	EPOST	B		41 c	94 a	93 abc	96 a	70 c	66 de	40 de
	Newpath	2	AS	2	FL OZ/A	EPOST	B								
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B								
	Newpath	2	AS	6	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
18	Prowl EC	3.3	EC	38.8	FL OZ/A	EPOST	B		33 c	94 a	94 abc	95 a	86 ab	64 e	29 d-g
	Newpath	2	AS	4	FL OZ/A	EPOST	B								
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B								
	Newpath	2	AS	4	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
19	Prowl EC	3.3	EC	38.8	FL OZ/A	EPOST	B		36 c	94 a	95 ab	95 a	89 ab	81 a-d	50 cde
	Newpath	2	AS	6	FL OZ/A	EPOST	B								
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B								
	Newpath	2	AS	6	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
20	Prowl H2O	3.8	CS	33.7	FL OZ/A	EPOST	B		36 c	94 a	93 abc	94 a	91 a	75 b-e	38 def
	Newpath	2	AS	4	FL OZ/A	EPOST	B								
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B								
	Newpath	2	AS	4	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
21	Prowl H2O	3.8	CS	33.7	FL OZ/A	EPOST	B		31 c	94 a	95 ab	96 a	90 a	81 a-d	43 cde
	Newpath	2	AS	6	FL OZ/A	EPOST	B								
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B								
	Newpath	2	AS	6	FL OZ/A	MPOST	C								
	Agri-Dex		L	19.2	FL OZ/A	MPOST	C								
Standard Deviation								5.4	10.4	2.9	2.6	3.0	9.6	10.3	16.9
CV								7.17	18.49	3.29	2.9	3.37	12.29	14.74	36.87

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Tolerance of Rice Varieties to Grasp Herbicide

Trial ID: 06-WS-03
Location: DREC

Objective:
To determine crop safety of five long-grain rice varieties to EPOST applications of Grasp herbicide.

Conclusions:
Grasp has been shown in previous years to cause injury to rice roots. However, this injury has generally not been reflected in final rice yields. This experiment was conducted to determine if differences in Grasp sensitivity exist among rice varieties. Visual injury was greatest for Cocodrie and least for CL131 and XL723 29 days following application of Grasp at 4 FL OZ/A (twice the labeled rate). Root injury was evident on all varieties, but root injury was greatest on Cocodrie and Cheniere. Maturity was delayed 2 to 3 days on Cocodrie, Cheniere, and CL131. However, by the end of the season, yields were equivalent for the same variety when treated or not treated with Grasp. Although injury to shoots and roots was observed following Grasp application, this injury did not reduce yield in 2006.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: Various
BBCH Scale: BRIC **Planting Date:** 4-May-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 71 F
Soil Moisture: Adequate **Emergence Date:** 13-May-06
Harvest Date: 12-Sep-06 **Harvest Equipment:** Mitsubishi VM-13
Harvested Width, Unit: 2.67 FT **Harvested Length, Unit:** 15 FT
% Standard Moisture: 12.0

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Compete Block (Factorial treatment arrangement)
% Slope: 0.1 **Soil Drainage:** G Good

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	4-May-06	Command	3	ME	1.33	PT/A
2.	4-May-06	Aim	2	EC	1	FL OZ/A
3.	4-May-06	Agri-Dex		L	1	QT/A
4.	1-Jun-06	Super Wham	4	EC	4	QT/A
5.	1-Jun-06	Facet	75	DF	0.67	QT/A
6.	1-Jun-06	Permit	75	DG	1	OZ/A
7.	1-Jun-06	Agri-Dex		L	1	QT/A

Field Prep./Maintenance:
Tillage - Triple-K, 3-May-06 and 15-May-06.

Mississippi State University Delta Research and Extension Center
Tolerance of Rice Varieties to Grasp Herbicide

Trial ID: 06-WS-03
Location: DREC

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 0.5 **Unit:** MI

	Date	Type
1.	22-May-06	Flush
2.	3-Jun-06	Flood
3.	31-Aug-06	Drain

Application Description

	A
Application Date:	25-May-06
Time of Day:	6:30
Application Method:	Broadcast
Application Timing:	EPOST
Application Placement:	Foliar
Applied By:	JAB
Air Temperature, Unit:	75 F
% Relative Humidity:	86
Wind Velocity, Unit:	1 MPH
Wind Direction:	NW
Dew Presence (Y/N):	Y
Soil Temperature, Unit:	74 F
Soil Moisture:	Wet
% Cloud Cover:	10

Crop Stage At Each Application

	A
Crop 1 Code:	ORYSA
Stage Scale Used:	BBCH
Stage Majority, Percent:	3 leaf
Stage Minimum, Percent:	2 leaf
Stage Maximum, Percent:	3 leaf
Height, Unit:	4 IN
Height Minimum, Maximum:	3 4

Mississippi State University Delta Research and Extension Center
Tolerance of Rice Varieties to Grasp Herbicide

Trial ID: 06-WS-03
Location: DREC

Application Equipment

	A
Appl. Equipment:	CO2 backpack
Operating Pressure, Unit:	40 PSI
Nozzle Type:	AI
Nozzle Size:	110015VS
Nozzle Spacing, Unit:	20 IN
Nozzles/Row:	3
Boom Length, Unit:	60 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	3 MPH
Carrier:	Water
Spray Volume, Unit:	15 GPA

Mississippi State University Delta Research and Extension Center
Tolerance of Rice Varieties to Grasp Herbicide

Trial ID: 06-WS-03
Location: DREC

Crop Name							Rice	Rice	Rice	Rice
Rating Date							23-Jun-06	23-Jun-06		12-Sep-06
Rating Data Type							Shoot Inj.	Root Inj.	50% Head	Yield
Rating Unit							%	%	DAE	bu/A
Trt-Eval Interval							29 DA-A	29 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	1	2	4	7
1	Cocodrie								79 cd	157 bcd
	Grasp	2	SC	0	FL OZ/A	EPOST				
	Agri-Dex		L	0	FL OZ/A	EPOST				
2	Cocodrie						14 a	60 a	82 ab	139 de
	Grasp	2	SC	3.96	FL OZ/A	EPOST				
	Agri-Dex		L	48	FL OZ/A	EPOST				
3	Cheneire								81 bc	160 bc
	Grasp	2	SC	0	FL OZ/A	EPOST				
	Agri-Dex		L	0	FL OZ/A	EPOST				
4	Cheneire						10 ab	53 a	83 a	167 b
	Grasp	2	SC	3.96	FL OZ/A	EPOST				
	Agri-Dex		L	48	FL OZ/A	EPOST				
5	CL161								83 a	135 e
	Grasp	2	SC	0	FL OZ/A	EPOST				
	Agri-Dex		L	0	FL OZ/A	EPOST				
6	CL161						5 c	23 b	83 a	145 cde
	Grasp	2	SC	3.96	FL OZ/A	EPOST				
	Agri-Dex		L	48	FL OZ/A	EPOST				
7	CL131								79 d	135 e
	Grasp	2	SC	0	FL OZ/A	EPOST				
	Agri-Dex		L	0	FL OZ/A	EPOST				
8	CL131						8 bc	31 b	81 bc	143 cde
	Grasp	2	SC	3.96	FL OZ/A	EPOST				
	Agri-Dex		L	48	FL OZ/A	EPOST				
9	XL723								79 cd	188 a
	Grasp	2	SC	0	FL OZ/A	EPOST				
	Agri-Dex		L	0	FL OZ/A	EPOST				
10	XL723						9 bc	20 b	79 cd	172 ab
	Grasp	2	SC	3.96	FL OZ/A	EPOST				
	Agri-Dex		L	48	FL OZ/A	EPOST				
Standard Deviation							2.6	12.9	1.2	12.7
CV							29.13	34.61	1.43	8.25

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Grasp Postflood Efficacy

Trial ID: 06-WS-06
Location: DREC

Objective:
To evaluate postflood weed control programs containing Grasp alone and/or in tank mixtures with other herbicides.

Conclusions:
This experiment simulated a salvage situation following rice flooding. Weeds evaluated included hemp sesbania (SEBEX), barnyardgrass (ECHCG), and browntop millet (PANRA). SEBEX was controlled at least 80% by all postflood treatments. Grasp at 2.5 FL OZ/A applied in tank mixture with Permit, Londax, or Stam M-4 or Grasp at 2.5 FL OZ/A followed by Clincher, Facet plus Stam M-4, or Regiment controlled SEBEX at least 93% 28 days after application. Only Grasp followed by Clincher, Regiment alone, or sequential applications of Clincher controlled ECHCG >80% 28 days following the application. Clincher was needed to control PANRA at least 80% 28 days after application. Of interest, Clincher at 15 FL OZ/A followed by Grasp at 2.5 FL OZ/A controlled PANRA 88%; however, Grasp (2.5 FL OZ/A) followed by Clincher (15 FL OZ/A) controlled PANRA only 48%. Data indicate that herbicide combinations are currently available to effectively control weeds in a postflood salvage situation.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: Coccodrie **Description:** Conventional variety
BBCH Scale: BRIC **Planting Date:** 15-May-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 72 F
Soil Moisture: Adequate **Emergence Date:** 23-May-06
Harvest Date: 20-Sep-06 **Harvest Equipment:** Mitsubishi VM-13
Harvested Width, Unit: 2.66 FT **Harvested Length, Unit:** 15 FT
% Standard Moisture: 12.0

Pest Description

Pest 1 Type: W **Code:** SEBEX *Sesbania exaltata*
Common Name: Hemp Sesbania

Pest 2 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: barnyardgrass

Pest 3 Type: W **Code:** PANRA *Brachiaria ramosa*
Common Name: Browntop millet

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Complete Block
% Slope: 0.1 **Soil Drainage:** G Good

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	15-Jun-06	Karate Z	2.08	CS	2	FL OZ/A
2.	14-Jun-06	Urea (46:0:0)	46	GR	325	LB/A

Field Prep./Maintenance:
Tillage - Triple-K, 3-May-06 and 15-May-06.

Mississippi State University Delta Research and Extension Center
Grasp Postflood Efficacy

Trial ID: 06-WS-06
Location: DREC

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 0.5 **Unit:** IN

	Date	Type
1.	22-May-06	Flush
2.	6-Jun-06	Flush
3.	15-Jun-06	Flood
4.	5-Sep-06	Drain

Application Description

	A	B	C
Application Date:	16-May-06	23-Jun-06	3-Jul-06
Time of Day:	7:30 am	8:00 am	7:30 am
Application Method:	Broadcast	Broadcast	Broadcast
Application Timing:	PRE	7d PTFLD	10-14 DAB
Application Placement:	Soil	Foliar	Foliar
Applied By:	JAB	JAB, LCV	JAB, LCV
Air Temperature, Unit:	70 F	86 F	89 F
% Relative Humidity:	54	68	80
Wind Velocity, Unit:	4 MPH	4 MPH	0 MPH
Wind Direction:	NW	W	None
Dew Presence (Y/N):	N	Y	Y
Soil Temperature, Unit:	68 F	-	-
Soil Moisture:	Adequate	Flood	Flood
% Cloud Cover:	50	0	10

Crop Stage At Each Application

	A	B	C
Crop 1 Code:	ORYSA	ORYSA	ORYSA
Stage Majority, Percent:		4 tiller	7 tiller
Stage Minimum, Percent:		3 tiller	7 tiller
Stage Maximum, Percent:		4 tiller	8 tiller
Height, Unit:		13 IN	24 IN
Height Minimum, Maximum:		11 13	20 24

Mississippi State University Delta Research and Extension Center
Grasp Postflood Efficacy

Trial ID: 06-WS-06
Location: DREC

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	SEBEX W	SEBEX W	SEBEX W
Stage Majority, Percent:		10 lf	11 lf
Stage Minimum, Percent:		8 lf	9 lf
Stage Maximum, Percent:		11 lf	13 lf
Height, Unit:		13 IN	21 IN
Height Minimum, Maximum:		10 18	18 24
Density, Unit:		5 FT2	4 FT2
Pest 2 Code, Disc., Scale:	ECHCG W	ECHCG W	ECHCG W
Stage Majority, Percent:		6 til	9 til
Stage Minimum, Percent:		4 til	9 til
Stage Maximum, Percent:		10 til	10 til
Height, Unit:		15 IN	15 IN
Height Minimum, Maximum:		8 15	12 18
Density, Unit:		4 FT2	4 FT2
Pest 3 Code, Disc., Scale:	PANRA W	PANRA W	PANRA W
Stage Majority, Percent:		6 til	9 til
Stage Minimum, Percent:		5 til	9 til
Stage Maximum, Percent:		7 til	10 til
Height, Unit:		12 IN	14 IN
Height Minimum, Maximum:		8 12	12 16
Density, Unit:		3 FT2	3 FT2

Application Equipment

	A	B	C
Appl. Equipment:	CO2 backpack	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	38 PSI	24 PSI	24 PSI
Nozzle Type:	AI	XR	TT
Nozzle Size:	110015VS	11001VS	11001
Nozzle Spacing, Unit:	20 IN	16 IN	16 IN
Boom Length, Unit:	60 IN	64 IN	64 IN
Boom Height, Unit:	16 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	2 MPH	2 MPH
Carrier:	Water	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

Mississippi State University Delta Research and Extension Center
Grasp Postflood Efficacy

Trial ID: 06-WS-06
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	4	5	6	7
Pest Code										SEBEX	SEBEX	SEBEX	ECHCG
Rating Date								30-Jun-06	7-Jul-06	30-Jun-06	7-Jul-06	21-Jul-06	30-Jun-06
Rating Data Type								Rice Injury	Rice Injury	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%
Days After First/Last Applic.								45 7	52 4	45 7	52 4	66 18	45 7
Trt-Eval Interval								7 DA-B	14 DA-B	7 DA-B	14 DA-B	28 DA-B	7 DA-B
1	Nontreated							0 b	0 b	0 g	0 d	0 d	0 d
2	Command	3	ME	0.8	PT/A	PRE	A	0 b	0 b	65 e	89 ab	86 abc	23 c
	Grasp	2	SC	2.3	FL OZ/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
3	Command	3	ME	0.8	PT/A	PRE	A	0 b	0 b	71 cde	84 ab	80 c	38 bc
	Grasp	2	SC	2.5	FL OZ/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
4	Command	3	ME	0.8	PT/A	PRE	A	0 b	0 b	75 b-e	90 ab	85 bc	45 abc
	Grasp	2	SC	2.8	FL OZ/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
5	Command	3	ME	0.8	PT/A	PRE	A	0 b	0 b	73 cde	90 ab	85 bc	53 ab
	Grasp	2	SC	2.5	FL OZ/A	7-10 d PTFLD	B						
	Clincher SF	2.38	EC	15	FL OZ/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
6	Command	3	ME	0.8	PT/A	PRE	A	0 b	0 b	53 f	88 ab	85 bc	35 bc
	Grasp	2	SC	2.5	FL OZ/A	7-10 d PTFLD	B						
	Facet	75	DF	0.5	LB/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
7	Command	3	ME	0.8	PT/A	PRE	A	0 b	0 b	70 cde	86 ab	84 bc	40 abc
	Grasp	2	SC	2.5	FL OZ/A	7-10 d PTFLD	B						
	Grandstand R	3	SL	8	FL OZ/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
8	Command	3	ME	0.8	PT/A	PRE	A	0 b	0 b	79 bcd	89 ab	95 a	38 bc
	Grasp	2	SC	2.5	FL OZ/A	7-10 d PTFLD	B						
	Permit	75	WG	0.5	OZ PR/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
9	Command	3	ME	0.8	PT/A	PRE	A	0 b	0 b	80 bc	90 ab	90 ab	38 bc
	Grasp	2	SC	2.5	FL OZ/A	7-10 d PTFLD	B						
	Londax	60	DF	0.75	OZ PR/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
10	Command	3	ME	0.8	PT/A	PRE	A	0 b	0 b	85 ab	71 bc	95 a	50 ab
	Grasp	2	SC	2.5	FL OZ/A	7-10 d PTFLD	B						
	Stam M-4	4	SL	4	QT/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
11	Command	3	ME	0.8	PT/A	PRE	A	0 b	0 b	70 cde	89 ab	95 a	40 abc
	Grasp	2	SC	2.5	FL OZ/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
	Clincher SF	2.38	EC	15	FL OZ/A	10-14 DAB	C						
	Agri-Dex		L	48	FL OZ/A	10-14 DAB	C						
12	Command	3	ME	0.8	PT/A	PRE	A	0 b	0 b	0 g	63 c	80 c	58 ab
	Clincher SF	2.38	EC	15	FL OZ/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
	Grasp	2	SC	2.5	FL OZ/A	10-14 DAB	C						
	Agri-Dex		L	48	FL OZ/A	10-14 DAB	C						
13	Command	3	ME	0.8	PT/A	PRE	A	0 b	0 b	0 g			63 a
	Clincher SF	2.38	EC	15	FL OZ/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
	Clincher SF	2.38	EC	10	FL OZ/A	10-14 DAB	C						
	Agri-Dex		L	48	FL OZ/A	10-14 DAB	C						
14	Command	3	ME	0.8	PT/A	PRE	A	0 b	0 b	93 a	95 a	95 a	50 ab
	Facet	75	DF	0.5	LB/A	7-10 d PTFLD	B						
	Stam M-4	4	SL	4	QT/A	7-10 d PTFLD	B						

Mississippi State University Delta Research and Extension Center
Grasp Postflood Efficacy

Trial ID: 06-WS-06
Location: DREC

Pest Code													
Rating Date								30-Jun-06	7-Jul-06	SEBEX 30-Jun-06	SEBEX 7-Jul-06	SEBEX 21-Jul-06	ECHCG 30-Jun-06
Rating Data Type								Rice Injury	Rice Injury	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%
Days After First/Last Applic.								45 7	52 4	45 7	52 4	66 18	45 7
Trt-Eval Interval								7 DA-B	14 DA-B	7 DA-B	14 DA-B	28 DA-B	7 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	4	5	6	7
15	Command	3	ME	0.8	PT/A	PRE	A	0 b	0 b	0 g	0 d	0 d	58 ab
	Clincher SF	2.38	EC	15	FL OZ/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
16	Command	3	ME	0.8	PT/A	PRE	A	4 a	3 a	68 de	89 ab	93 ab	56 ab
	Regiment	80	WP	0.6	OZ PR/A	7-10 d PTFLD	B						
	Dyne-A-Pak		AJ	19.2	FL OZ/A	7-10 d PTFLD	B						
17	Command	3	ME	0.8	PT/A	PRE	A	0 b	0 b	0 g	0 d	0 d	58 ab
Standard Deviation								0.2	0.5	7.5	13.1	5.6	14.2
CV								117.8	309.09	14.57	18.81	7.82	32.6

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Grasp Postflood Efficacy

Trial ID: 06-WS-06
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	ECHCG 7-Jul-06 Control % 52 4 14 DA-B 8	ECHCG 21-Jul-06 Control % 66 18 28 DA-B 9	PANRA 7-Jul-06 Control % 52 4 14 DA-B 10	PANRA 21-Jul-06 Control % 66 18 28 DA-B 11	50% Head DAE 13	20-Sep-06 Yield bu/A 16
1	Nontreated							0 d	0 f	0 f	0 i	77 ab	92 d
2	Command	3	ME	0.8	PT/A	PRE	A	78 ab	75 bcd	71 de	50 fgh	77 ab	170 ab
	Grasp	2	SC	2.3	FL OZ/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
3	Command	3	ME	0.8	PT/A	PRE	A	83 ab	76 a-d	80 a-e	63 d-g	77 abc	169 ab
	Grasp	2	SC	2.5	FL OZ/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
4	Command	3	ME	0.8	PT/A	PRE	A	85 ab	80 abc	88 ab	55 e-h	76 c	167 ab
	Grasp	2	SC	2.8	FL OZ/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
5	Command	3	ME	0.8	PT/A	PRE	A	89 ab	78 a-d	91 a	91 a	76 c	163 ab
	Grasp	2	SC	2.5	FL OZ/A	7-10 d PTFLD	B						
	Clincher SF	2.38	EC	15	FL OZ/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
6	Command	3	ME	0.8	PT/A	PRE	A	84 ab	64 d	69 e	41 h	76 bc	161 ab
	Grasp	2	SC	2.5	FL OZ/A	7-10 d PTFLD	B						
	Facet	75	DF	0.5	LB/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
7	Command	3	ME	0.8	PT/A	PRE	A	74 bc	65 d	70 de	43 h	76 abc	159 ab
	Grasp	2	SC	2.5	FL OZ/A	7-10 d PTFLD	B						
	Grandstand R	3	SL	8	FL OZ/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
8	Command	3	ME	0.8	PT/A	PRE	A	81 ab	76 a-d	70 de	45 gh	76 abc	174 a
	Grasp	2	SC	2.5	FL OZ/A	7-10 d PTFLD	B						
	Permit	75	WG	0.5	OZ PR/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
9	Command	3	ME	0.8	PT/A	PRE	A	81 ab	74 bcd	73 cde	40 h	76 c	160 ab
	Grasp	2	SC	2.5	FL OZ/A	7-10 d PTFLD	B						
	Londax	60	DF	0.75	OZ PR/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
10	Command	3	ME	0.8	PT/A	PRE	A	85 ab	73 bcd	86 abc	80 a-d	77 abc	168 ab
	Grasp	2	SC	2.5	FL OZ/A	7-10 d PTFLD	B						
	Stam M-4	4	SL	4	QT/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
11	Command	3	ME	0.8	PT/A	PRE	A	76 ab	80 abc	71 de	48 gh	77 a	166 ab
	Grasp	2	SC	2.5	FL OZ/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
	Clincher SF	2.38	EC	15	FL OZ/A	10-14 DAB	C						
	Agri-Dex		L	48	FL OZ/A	10-14 DAB	C						
12	Command	3	ME	0.8	PT/A	PRE	A	76 ab	76 a-d	80 a-e	88 ab	76 c	162 ab
	Clincher SF	2.38	EC	15	FL OZ/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
	Grasp	2	SC	2.5	FL OZ/A	10-14 DAB	C						
	Agri-Dex		L	48	FL OZ/A	10-14 DAB	C						
13	Command	3	ME	0.8	PT/A	PRE	A	88 ab	85 ab	89 a	93 a	77 abc	164 ab
	Clincher SF	2.38	EC	15	FL OZ/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
	Clincher SF	2.38	EC	10	FL OZ/A	10-14 DAB	C						
	Agri-Dex		L	48	FL OZ/A	10-14 DAB	C						
14	Command	3	ME	0.8	PT/A	PRE	A	76 ab	70 cd	88 ab	68 c-f	77 abc	165 ab
	Facet	75	DF	0.5	LB/A	7-10 d PTFLD	B						
	Stam M-4	4	SL	4	QT/A	7-10 d PTFLD	B						

Mississippi State University Delta Research and Extension Center
Grasp Postflood Efficacy

Trial ID: 06-WS-06
Location: DREC

Pest Code								ECHCG	ECHCG	PANRA	PANRA		
Rating Date								7-Jul-06	21-Jul-06	7-Jul-06	21-Jul-06		20-Sep-06
Rating Data Type								Control	Control	Control	Control	50% Head	Yield
Rating Unit								%	%	%	%	DAE	bu/A
Days After First/Last Applic.								52 4	66 18	52 4	66 18		
Trt-Eval Interval								14 DA-B	28 DA-B	14 DA-B	28 DA-B		
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	8	9	10	11	13	16
15	Command	3	ME	0.8	PT/A	PRE	A	90 a	78 a-d	90 a	84 abc	77 abc	145 bc
	Clincher SF	2.38	EC	15	FL OZ/A	7-10 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7-10 d PTFLD	B						
16	Command	3	ME	0.8	PT/A	PRE	A	84 ab	90 a	84 a-d	70 b-e	76 c	167 ab
	Regiment	80	WP	0.6	OZ PR/A	7-10 d PTFLD	B						
	Dyne-A-Pak		AJ	19.2	FL OZ/A	7-10 d PTFLD	B						
17	Command	3	ME	0.8	PT/A	PRE	A	61 c	49 e	74 b-e	38 h	77 ab	134 c
Standard Deviation								9.2	8.5	8.7	12.4	0.6	15.9
CV								12.14	12.15	11.68	21.2	0.78	10.05

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Preflood and Postflood Clincher SF Efficacy

Trial ID: 06-WS-07
Location: DREC

Objective:
To evaluate weed control programs containing Clincher SF applied pre- and/or postflood.

Conclusions:
Clincher SF was evaluated within various broad-spectrum weed control programs. Weeds evaluated included hemp sesbania (SEBEX), ivyleaf morningglory (IPOHE), pitted morningglory (IPOLA), barnyardgrass (ECHCG), browntop millet (PANRA), and Amazon sprangletop (LEFPA). At 14 days following the 7 days postflood (7 d PTFLD) applications, SEBEX, IPOHE, and IPOLA were controlled at least 90% by all treatments except Command PRE. All treatments that included Clincher SF controlled ECHCG and PANRA at least 93% at 14 days following the 7 d PTFLD application. LEFPA was a late-emerging problem in this experiment. LEFPA control was reduced when Clincher SF was applied following Grasp compared with Clincher SF applied to 1- to 3-leaf grass followed by Grandstand R 3 days preflood (3 d PRFLD) followed by Grasp 7 d PTFLD. Rice yield was reduced when only Grandstand R plus Permit was applied postemergence.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: Cocodrie **Description:** Conventional variety
BBCH Scale: BRIC **Planting Date:** 15-May-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 72 F
Soil Moisture: Adequate **Emergence Date:** 23-May-06
Harvest Date: 21-Sep-06 **Harvest Equipment:** Mitsubishi VM-13
Harvested Width, Unit: 2.66 FT **Harvested Length, Unit:** 15 FT
% Standard Moisture: 12.0

Pest Description

Pest 1 Type: W **Code:** SEBEX *Sesbania exaltata*
Common Name: Hemp sesbania

Pest 2 Type: W **Code:** IPOHE *Ipomoea hederacea*
Common Name: Ivyleaf morningglory

Pest 3 Type: W **Code:** IPOLA *Ipomoea lacunosa*
Common Name: Pitted morningglory

Pest 4 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Common barnyardgrass

Pest 5 Type: W **Code:** PANRA *Brachiaria ramosa*
Common Name: Browntop millet

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Complete Block
% Slope: 0.1 **Soil Drainage:** G Good

Mississippi State University Delta Research and Extension Center
Preflood and Postflood Clincher SF Efficacy

Trial ID: 06-WS-07
Location: DREC

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	14-Jun-06	Urea (46:0:0)	46	GR	325	LB/A
2.	15-Jun-06	Karate Z	2.08	CS	2	FL OZ/A
3.	25-Jul-06	Ultra Blazer	2	L	1	PT/A

Comment: Ultra Blazer application on 25-Jul-06 was made to control hemp sesbania so that the experiment could be harvested.

Field Prep./Maintenance:
Tillage - Triple-K, 3-May-06 and 15-May-06.

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 0.5 **Unit:** MI

	Date	Type
1.	22-May-06	Flush
2.	6-Jun-06	Flush
3.	15-Jun-06	Flood
4.	5-Sep-06	Drain

Application Description

	A	B	C	D	E
Application Date:	16-May-06	5-Jun-06	12-Jun-06	23-Jun-06	3-Jul-06
Time of Day:	7:30 am	9:00 am	9:45 am	8:45 am	7:30 am
Application Method:	Broadcast	Broadcast	Broadcast	Broadcast	Broadcast
Application Timing:	PRE	1-3 leaf	3 d PRFLD	7 d PTFLD	10 DAD
Application Placement:	Soil	Foliar	Foliar	Foliar	Foliar
Applied By:	JAB	JAB	JAB	JAB, LCV	JAB, LCV
Air Temperature, Unit:	70 F	89 F	89 F	86 F	84 F
% Relative Humidity:	54	50	76	68	80
Wind Velocity, Unit:	4 MPH	3 MPH	4 MPH	4 MPH	0 MPH
Wind Direction:	NW	NE	NW	W	
Dew Presence (Y/N):	N	N	N	Y	Y
Soil Temperature, Unit:	68 F	78 F			
Soil Moisture:	Adequate	Adequate	Adequate	Flood	Flood
% Cloud Cover:	50	5	10	0	0

Mississippi State University Delta Research and Extension Center
Preflood and Postflood Clincher SF Efficacy

Trial ID: 06-WS-07
Location: DREC

Crop Stage At Each Application

	A	B	C	D	E
Crop 1 Code:	ORYSA	ORYSA	ORYSA	ORYSA	ORYSA
Stage Majority, Percent:		3 leaf	1 tiller	4 tiller	8 tiller
Stage Minimum, Percent:		3 leaf	1 tiller	3 tiller	9 tiller
Stage Maximum, Percent:		4 leaf	2 tiller	4 tiller	
Height, Unit:		7 IN	8 IN	12 IN	21 IN
Height Minimum, Maximum:		6 7	7 9	11 13	18 24

Pest Stage At Each Application

	A	B	C	D	E
Pest 1 Code, Disc., Scale:	SEBEX W	SEBEX W	SEBEX W	SEBEX W	SEBEX W
Stage Majority, Percent:		3 lf	6 lf	6 lf	12 lf
Stage Minimum, Percent:		3 lf	5 lf	6 lf	10 lf
Stage Maximum, Percent:		4 lf	6 lf	7 lf	12 lf
Height, Unit:		3 IN	6 IN	8 IN	12 IN
Height Minimum, Maximum:		3 4	5 6	7 9	8 15
Density, Unit:		4 FT2	5 FT2	4 FT2	5 FT2
Pest 2 Code, Disc., Scale:	IPOHE W	IPOHE W	IPOHE W	IPOHE W	IPOHE W
Stage Majority, Percent:		2 lf	5 lf		
Stage Minimum, Percent:		2 lf	4 lf		
Stage Maximum, Percent:		3 lf	6 lf		
Height, Unit:		2 IN	4 IN		
Height Minimum, Maximum:		1 2	3 4		
Density, Unit:		3 FT2	3 FT2		
Pest 3 Code, Disc., Scale:	IPOLA W	IPOLA W	IPOLA W	IPOLA W	IPOLA W
Stage Majority, Percent:		2 lf	5 lf		
Stage Minimum, Percent:		2 lf	4 lf		
Stage Maximum, Percent:		3 lf	6 lf		
Height, Unit:		2 IN	4 IN		
Height Minimum, Maximum:		1 2	3 4		
Density, Unit:		3 FT2	3 FT2		
Pest 4 Code, Disc., Scale:	ECHCG W	ECHCG W	ECHCG W	ECHCG W	ECHCG W
Stage Majority, Percent:		2 lf	4 lf	4 til	6 til
Stage Minimum, Percent:		1 lf	3 lf	4 til	5 til
Stage Maximum, Percent:		3 lf	4 lf	6 til	7 til
Height, Unit:		2 IN	3 IN	14 IN	15 IN
Height Minimum, Maximum:		1 3	2 3	12 15	12 15
Density, Unit:		4 FT2	4 FT2	2 FT2	2 FT2
Pest 5 Code, Disc., Scale:	PANRA W	PANRA W	PANRA W	PANRA W	PANRA W
Stage Majority, Percent:		2 lf	4 lf	3 til	5 til
Stage Minimum, Percent:		1 lf	3 lf	3 til	4 til
Stage Maximum, Percent:		3 lf	4 lf	5 til	6 til
Height, Unit:		2 IN	3 IN	9 IN	11 IN
Height Minimum, Maximum:		1 2	2 3	8 10	10 12
Density, Unit:		4 FT2	4 FT2	2 FT2	2 FT2

Mississippi State University Delta Research and Extension Center
Preflood and Postflood Clincher SF Efficacy

Trial ID: 06-WS-07
Location: DREC

Application Equipment

	A	B	C	D	E
Appl. Equipment:	CO2 backpack	CO2 backpack	CO2 backpack	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	38 PSI	38 PSI	25 PSI	24 PSI	24 PSI
Nozzle Type:	AI	DG	DG	TT	TT
Nozzle Size:	110015VS	110015VS	110015VS	11001	11001
Nozzle Spacing, Unit:	20 IN	16 IN	16 IN	16 IN	16 IN
Boom Length, Unit:	60 IN	64 IN	64 IN	64 IN	64 IN
Boom Height, Unit:	16 IN	18 IN	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	2 MPH	2 MPH
Carrier:	Water	Water	Water	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA

Date	By	Notes
30-Jun-06	JAB	Morningglory species were killed by floodwater.
30-Jun-06	JAB	Weed populations were low in the first five drill passes of reps 3 and 4. Plots within this area were rated based on the weed pressure in these plots.

Mississippi State University Delta Research and Extension Center
Preflood and Postflood Clincher SF Efficacy

Trial ID: 06-WS-07
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	8	9
	Pest Code											SEBEX	SEBEX
	Rating Date							5-Jun-06	12-Jun-06	19-Jun-06	30-Jun-06	5-Jun-06	19-Jun-06
	Rating Data Type							Rice Injury	Rice Injury	Rice Injury	Rice Injury	Control	Control
	Rating Unit							%	%	%	%	%	%
	Days After First/Last Applic.							20 0	27 0	34 7	45 7	20 0	34 7
	Trt-Eval Interval							20 DA-A	7 DA-B	7 DA-C	7 DA-D	20 DA-A	7 DA-C
1	Nontreated							0 a	0 b	0 a	0 c	0 a	0 f
2	Command	3	ME	1	PT/A	PRE	A	0 a	0 b	0 a	0 c	3 a	0 f
3	Command	3	ME	1	PT/A	1-3 lf grass	B		2 a	0 a	1 bc		85 b
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B						
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B						
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C						
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C						
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C						
4	Command	3	ME	1	PT/A	1-3 lf grass	B		1 b	0 a	1 bc		83 bc
	Clincher SF	2.38	EC	13.5	FL OZ/A	1-3 lf grass	B						
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B						
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C						
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C						
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C						
5	Command	3	ME	1	PT/A	1-3 lf grass	B		0 b	0 a	0 c		84 b
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B						
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B						
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C						
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C						
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C						
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D						
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D						
6	Facet	75	DF	0.5	LB/A	1-3 lf grass	B		2 a	0 a	0 c		98 a
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B						
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B						
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C						
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C						
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C						
7	Facet	75	DF	0.5	LB/A	1-3 lf grass	B		2 ab	0 a	0 c		95 a
	Clincher SF	2.38	EC	13.5	FL OZ/A	1-3 lf grass	B						
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B						
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C						
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C						
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C						
8	Facet	75	DF	0.5	LB/A	1-3 lf grass	B		0 b	0 a	2 b		96 a
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B						
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B						
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C						
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C						
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C						
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D						
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D						
9	Command	3	ME	1	PT/A	PRE	A	0 a	0 b	0 a	0 c	6 a	73 d
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C						
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C						
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C						
10	Command	3	ME	1	PT/A	PRE	A	0 a	0 b	0 a	0 c	3 a	73 d
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C						
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C						
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C						
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D						
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D						

Mississippi State University Delta Research and Extension Center
Preflood and Postflood Clincher SF Efficacy

Trial ID: 06-WS-07
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	8	9
Pest Code												SEBEX	SEBEX
Rating Date								5-Jun-06	12-Jun-06	19-Jun-06	30-Jun-06	5-Jun-06	19-Jun-06
Rating Data Type								Rice Injury	Rice Injury	Rice Injury	Rice Injury	Control	Control
Rating Unit								%	%	%	%	%	%
Days After First/Last Applic.								20 0	27 0	34 7	45 7	20 0	34 7
Trt-Eval Interval								20 DA-A	7 DA-B	7 DA-C	7 DA-D	20 DA-A	7 DA-C
11	Command	3	ME	1	PT/A	PRE	A	0 a	0 b	0 a	5 a	5 a	84 b
	Grasp	2	SC	2	FL OZ/A	3 d PRFLD	C						
	Agri-Dex		L	32	FL OZ/A	3 d PRFLD	C						
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D						
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D						
12	Command	3	ME	1	PT/A	1-3 lf grass	B		0 b	0 a	0 c		76 cd
	Clincher SF	2.38	EC	13.5	FL OZ/A	1-3 lf grass	B						
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B						
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C						
	Agri-Dex		L	32	FL OZ/A	3 d PRFLD	C						
	Grasp	2	SC	2.5	FL OZ/A	7 D PTFLD	D						
	Agri-Dex		L	32	FL OZ/A	7 D PTFLD	D						
13	Command	3	ME	1	PT/A	PRE	A	0 a	0 b	0 a	0 c	9 a	64 e
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C						
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C						
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C						
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D						
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D						
	Clincher SF	2.38	EC	10	FL OZ/A	10 DAD	E						
	Agri-Dex		L	32	FL OZ/A	10 DAD	E						
Standard Deviation								0.0	0.9	0.0	1.1	4.9	4.5
CV								0.0	172.05	0.0	180.56	116.62	6.39

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Preflood and Postflood Clincher SF Efficacy

Trial ID: 06-WS-07
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	10	11	12	13	14	15	16
	Pest Code							SEBEX	SEBEX	SEBEX	IPOHE	IPOHE	IPOHE	IPOHE
	Rating Date							30-Jun-06	7-Jul-06	17-Jul-06	5-Jun-06	19-Jun-06	30-Jun-06	7-Jul-06
	Rating Data Type							Control	Control	Control	Control	Control	Control	Control
	Rating Unit							%	%	%	%	%	%	%
	Days After First/Last Applic.							45 7	52 4	62 14	20 0	34 7	45 7	52 4
	Trt-Eval Interval							7 DA-D	14 DA-D	24 DA-D	20 DA-A	7 DA-C	7 DA-D	14 DA-D
1	Nontreated							0 d	0 e	0 d	0 a	0 e	0 d	0 c
2	Command	3	ME	1	PT/A	PRE	A	0 d	0 e	0 d	19 a	0 e	48 c	60 b
3	Command	3	ME	1	PT/A	1-3 lf grass	B	99 a	99 a	99 a		81 b	99 a	99 a
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
4	Command	3	ME	1	PT/A	1-3 lf grass	B	98 a	98 ab	97 ab		75 bcd	99 a	99 a
	Clincher SF	2.38	EC	13.5	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
5	Command	3	ME	1	PT/A	1-3 lf grass	B	99 a	99 a	99 a		80 bc	99 a	99 a
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D							
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D							
6	Facet	75	DF	0.5	LB/A	1-3 lf grass	B	99 a	99 a	99 a		97 a	99 a	99 a
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
7	Facet	75	DF	0.5	LB/A	1-3 lf grass	B	99 a	99 a	99 a		94 a	99 a	99 a
	Clincher SF	2.38	EC	13.5	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
8	Facet	75	DF	0.5	LB/A	1-3 lf grass	B	99 a	99 a	99 a		96 a	99 a	99 a
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D							
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D							
9	Command	3	ME	1	PT/A	PRE	A	91 b	90 d	89 c	16 a	79 bcd	97 ab	96 a
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
10	Command	3	ME	1	PT/A	PRE	A	91 b	93 bcd	96 ab	11 a	75 bcd	99 a	98 a
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D							
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D							

Mississippi State University Delta Research and Extension Center
Preflood and Postflood Clincher SF Efficacy

Trial ID: 06-WS-07
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	10	11	12	13	14	15	16
	Pest Code							SEBEX	SEBEX	SEBEX	IPOHE	IPOHE	IPOHE	IPOHE
	Rating Date							30-Jun-06	7-Jul-06	17-Jul-06	5-Jun-06	19-Jun-06	30-Jun-06	7-Jul-06
	Rating Data Type							Control	Control	Control	Control	Control	Control	Control
	Rating Unit							%	%	%	%	%	%	%
	Days After First/Last Applic.							45 7	52 4	62 14	20 0	34 7	45 7	52 4
	Trt-Eval Interval							7 DA-D	14 DA-D	24 DA-D	20 DA-A	7 DA-C	7 DA-D	14 DA-D
11	Command	3	ME	1	PT/A	PRE	A	90 bc	92 cd	91 bc	18 a	76 bcd	95 b	99 a
	Grasp	2	SC	2	FL OZ/A	3 d PRFLD	C							
	Agri-Dex		L	32	FL OZ/A	3 d PRFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D							
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D							
12	Command	3	ME	1	PT/A	1-3 lf grass	B	86 c	97 abc	97 ab		70 cd	96 b	99 a
	Clincher SF	2.38	EC	13.5	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Agri-Dex		L	32	FL OZ/A	3 d PRFLD	C							
	Grasp	2	SC	2.5	FL OZ/A	7 D PTFLD	D							
	Agri-Dex		L	32	FL OZ/A	7 D PTFLD	D							
13	Command	3	ME	1	PT/A	PRE	A	86 c	97 abc	98 a	21 a	69 d	97 ab	99 a
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D							
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D							
	Clincher SF	2.38	EC	10	FL OZ/A	10 DAD	E							
	Agri-Dex		L	32	FL OZ/A	10 DAD	E							
	Standard Deviation							3.1	3.4	3.9	9.3	6.2	1.7	4.1
	CV							3.93	4.15	4.76	65.5	9.07	1.98	4.61

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Preflood and Postflood Clincher SF Efficacy

Trial ID: 06-WS-07
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	17	18	19	20	21	22	23
Pest Code								IPOHE	IPOLA	IPOLA	IPOLA	IPOLA	ECHCG	ECHCG
Rating Date								17-Jul-06	19-Jun-06	30-Jun-06	7-Jul-06	17-Jul-06	5-Jun-06	19-Jun-06
Rating Data Type								Control	Control	Control	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%	%
Days After First/Last Applic.								62 14	34 7	45 7	52 4	62 14	20 0	34 7
Trt-Eval Interval								24 DA-D	7 DA-C	7 DA-D	14 DA-D	24 DA-D	20 DA-A	7 DA-C
1	Nontreated							0 c	0 e	0 d	0 c	0 c	0 b	0 d
2	Command	3	ME	1	PT/A	PRE	A	25 b	0 e	53 c	30 b	25 b	94 a	65 c
3	Command	3	ME	1	PT/A	1-3 lf grass	B	99 a	81 b	99 a	99 a	99 a		86 a
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
4	Command	3	ME	1	PT/A	1-3 lf grass	B	99 a	76 bcd	99 a	99 a	99 a		88 a
	Clincher SF	2.38	EC	13.5	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
5	Command	3	ME	1	PT/A	1-3 lf grass	B	99 a	80 b	99 a	99 a	99 a		86 a
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D							
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D							
6	Facet	75	DF	0.5	LB/A	1-3 lf grass	B	99 a	97 a	99 a	99 a	99 a		93 a
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
7	Facet	75	DF	0.5	LB/A	1-3 lf grass	B	99 a	94 a	99 a	99 a	99 a		91 a
	Clincher SF	2.38	EC	13.5	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
8	Facet	75	DF	0.5	LB/A	1-3 lf grass	B	99 a	97 a	99 a	99 a	99 a		93 a
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D							
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D							
9	Command	3	ME	1	PT/A	PRE	A	98 a	79 bc	96 ab	96 a	98 a	90 a	70 bc
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
10	Command	3	ME	1	PT/A	PRE	A	98 a	75 bcd	99 a	98 a	98 a	90 a	68 c
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D							
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D							

Mississippi State University Delta Research and Extension Center
Preflood and Postflood Clincher SF Efficacy

Trial ID: 06-WS-07
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	17	18	19	20	21	22	23
	Pest Code							IPOHE	IPOLA	IPOLA	IPOLA	IPOLA	ECHCG	ECHCG
	Rating Date							17-Jul-06	19-Jun-06	30-Jun-06	7-Jul-06	17-Jul-06	5-Jun-06	19-Jun-06
	Rating Data Type							Control	Control	Control	Control	Control	Control	Control
	Rating Unit							%	%	%	%	%	%	%
	Days After First/Last Applic.							62 14	34 7	45 7	52 4	62 14	20 0	34 7
	Trt-Eval Interval							24 DA-D	7 DA-C	7 DA-D	14 DA-D	24 DA-D	20 DA-A	7 DA-C
11	Command	3	ME	1	PT/A	PRE	A	99 a	76 bcd	95 b	99 a	99 a	91 a	76 b
	Grasp	2	SC	2	FL OZ/A	3 d PRFLD	C							
	Agri-Dex		L	32	FL OZ/A	3 d PRFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D							
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D							
12	Command	3	ME	1	PT/A	1-3 lf grass	B	99 a	70 cd	97 ab	99 a	99 a		88 a
	Clincher SF	2.38	EC	13.5	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Agri-Dex		L	32	FL OZ/A	3 d PRFLD	C							
	Grasp	2	SC	2.5	FL OZ/A	7 D PTFLD	D							
	Agri-Dex		L	32	FL OZ/A	7 D PTFLD	D							
13	Command	3	ME	1	PT/A	PRE	A	99 a	69 d	96 ab	99 a	99 a	91 a	66 c
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D							
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D							
	Clincher SF	2.38	EC	10	FL OZ/A	10 DAD	E							
	Agri-Dex		L	32	FL OZ/A	10 DAD	E							
	Standard Deviation							4.9	6.2	2.2	5.7	4.9	2.9	5.3
	CV							5.73	8.94	2.48	6.6	5.73	3.84	7.17

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Preflood and Postflood Clincher SF Efficacy

Trial ID: 06-WS-07
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	24	25	26	27	28	29	30
Pest Code								ECHCG	ECHCG	ECHCG	ECHCG	PANRA	PANRA	PANRA
Rating Date								30-Jun-06	7-Jul-06	17-Jul-06	11-Aug-06	5-Jun-06	19-Jun-06	30-Jun-06
Rating Data Type								Control	Control	Control	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%	%
Days After First/Last Applic.								45 7	52 4	62 14	87 39	20 0	34 7	45 7
Trt-Eval Interval								7 DA-D	14 DA-D	24 DA-D	49 DA-D	20 DA-A	7 DA-C	7 DA-D
1	Nontreated							0 d	0 d	0 d	0 d	0 b	0 c	0 e
2	Command	3	ME	1	PT/A	PRE	A	55 c	55 c	53 c	54 c	94 a	70 b	78 d
3	Command	3	ME	1	PT/A	1-3 lf grass	B	97 a	99 a	95 a	85 ab		90 a	99 a
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
4	Command	3	ME	1	PT/A	1-3 lf grass	B	95 a	98 a	92 a	90 ab		90 a	98 a
	Clincher SF	2.38	EC	13.5	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
5	Command	3	ME	1	PT/A	1-3 lf grass	B	97 a	99 a	98 a	96 a		90 a	98 a
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D							
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D							
6	Facet	75	DF	0.5	LB/A	1-3 lf grass	B	97 a	99 a	94 a	90 ab		90 a	95 ab
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
7	Facet	75	DF	0.5	LB/A	1-3 lf grass	B	96 a	99 a	97 a	91 ab		90 a	98 a
	Clincher SF	2.38	EC	13.5	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
8	Facet	75	DF	0.5	LB/A	1-3 lf grass	B	97 a	99 a	99 a	97 a		91 a	99 a
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D							
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D							
9	Command	3	ME	1	PT/A	PRE	A	73 b	80 b	68 b	61 c	90 a	71 b	88 bc
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
10	Command	3	ME	1	PT/A	PRE	A	79 b	93 a	91 a	83 b	90 a	71 b	94 abc
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D							
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D							

Mississippi State University Delta Research and Extension Center
Preflood and Postflood Clincher SF Efficacy

Trial ID: 06-WS-07
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	24	25	26	27	28	29	30
	Pest Code							ECHCG	ECHCG	ECHCG	ECHCG	PANRA	PANRA	PANRA
	Rating Date							30-Jun-06	7-Jul-06	17-Jul-06	11-Aug-06	5-Jun-06	19-Jun-06	30-Jun-06
	Rating Data Type							Control	Control	Control	Control	Control	Control	Control
	Rating Unit							%	%	%	%	%	%	%
	Days After First/Last Applic.							45 7	52 4	62 14	87 39	20 0	34 7	45 7
	Trt-Eval Interval							7 DA-D	14 DA-D	24 DA-D	49 DA-D	20 DA-A	7 DA-C	7 DA-D
11	Command	3	ME	1	PT/A	PRE	A	78 b	93 a	88 a	88 ab	90 a	76 b	88 bc
	Grasp	2	SC	2	FL OZ/A	3 d PRFLD	C							
	Agri-Dex		L	32	FL OZ/A	3 d PRFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D							
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D							
12	Command	3	ME	1	PT/A	1-3 lf grass	B	91 a	99 a	99 a	96 a		88 a	95 ab
	Clincher SF	2.38	EC	13.5	FL OZ/A	1-3 lf grass	B							
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B							
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Agri-Dex		L	32	FL OZ/A	3 d PRFLD	C							
	Grasp	2	SC	2.5	FL OZ/A	7 D PTFLD	D							
	Agri-Dex		L	32	FL OZ/A	7 D PTFLD	D							
13	Command	3	ME	1	PT/A	PRE	A	73 b	90 a	93 a	86 ab	90 a	69 b	86 c
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C							
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C							
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D							
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D							
	Clincher SF	2.38	EC	10	FL OZ/A	10 DAD	E							
	Agri-Dex		L	32	FL OZ/A	10 DAD	E							
	Standard Deviation							6.0	5.8	9.0	7.7	2.7	6.2	4.9
	CV							7.59	6.83	11.03	9.89	3.54	8.11	5.68

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Preflood and Postflood Clincher SF Efficacy

Trial ID: 06-WS-07
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	31	32	33	36
	Pest Code							PANRA	PANRA	LEFPA	
	Rating Date							7-Jul-06	17-Jul-06	11-Aug-06	21-Sep-06
	Rating Data Type							Control	Control	Control	Yield
	Rating Unit							%	%	%	bu/A
	Days After First/Last Applic.							52 4	62 14	87 39	
	Trt-Eval Interval							14 DA-D	24 DA-D	49 DA-D	
1	Nontreated							0 c	0 d	0 e	84 d
2	Command	3	ME	1	PT/A	PRE	A	90 b	90 c	54 d	148 c
3	Command	3	ME	1	PT/A	1-3 lf grass	B	99 a	99 a	96 ab	177 a
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B				
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B				
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C				
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C				
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C				
4	Command	3	ME	1	PT/A	1-3 lf grass	B	99 a	98 a	95 ab	168 ab
	Clincher SF	2.38	EC	13.5	FL OZ/A	1-3 lf grass	B				
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B				
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C				
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C				
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C				
5	Command	3	ME	1	PT/A	1-3 lf grass	B	99 a	99 a	97 ab	172 ab
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B				
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B				
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C				
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C				
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C				
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D				
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D				
6	Facet	75	DF	0.5	LB/A	1-3 lf grass	B	99 a	99 a	90 ab	165 ab
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B				
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B				
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C				
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C				
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C				
7	Facet	75	DF	0.5	LB/A	1-3 lf grass	B	99 a	99 a	94 ab	174 a
	Clincher SF	2.38	EC	13.5	FL OZ/A	1-3 lf grass	B				
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B				
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C				
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C				
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C				
8	Facet	75	DF	0.5	LB/A	1-3 lf grass	B	99 a	99 a	97 ab	171 ab
	Clincher SF	2.38	EC	10	FL OZ/A	1-3 lf grass	B				
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B				
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C				
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C				
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C				
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D				
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D				
9	Command	3	ME	1	PT/A	PRE	A	96 a	94 b	64 c	157 bc
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C				
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C				
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C				
10	Command	3	ME	1	PT/A	PRE	A	98 a	98 a	90 ab	176 a
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C				
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C				
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C				
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D				
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D				

Mississippi State University Delta Research and Extension Center
Preflood and Postflood Clincher SF Efficacy

Trial ID: 06-WS-07
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	31	32	33	36
	Pest Code							PANRA	PANRA	LEFPA	
	Rating Date							7-Jul-06	17-Jul-06	11-Aug-06	21-Sep-06
	Rating Data Type							Control	Control	Control	Yield
	Rating Unit							%	%	%	bu/A
	Days After First/Last Applic.							52 4	62 14	87 39	
	Trt-Eval Interval							14 DA-D	24 DA-D	49 DA-D	
11	Command	3	ME	1	PT/A	PRE	A	98 a	98 a	86 b	172 ab
	Grasp	2	SC	2	FL OZ/A	3 d PRFLD	C				
	Agri-Dex		L	32	FL OZ/A	3 d PRFLD	C				
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D				
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D				
12	Command	3	ME	1	PT/A	1-3 lf grass	B	99 a	99 a	98 a	173 ab
	Clincher SF	2.38	EC	13.5	FL OZ/A	1-3 lf grass	B				
	Agri-Dex		L	32	FL OZ/A	1-3 lf grass	B				
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C				
	Agri-Dex		L	32	FL OZ/A	3 d PRFLD	C				
	Grasp	2	SC	2.5	FL OZ/A	7 D PTFLD	D				
	Agri-Dex		L	32	FL OZ/A	7 D PTFLD	D				
13	Command	3	ME	1	PT/A	PRE	A	98 a	99 a	89 ab	164 ab
	Grandstand R	3	SL	12	FL OZ/A	3 d PRFLD	C				
	Permit	75	WG	0.5	OZ/A	3 d PRFLD	C				
	Agri-Dex		L	16	FL OZ/A	3 d PRFLD	C				
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	D				
	Agri-Dex		L	32	FL OZ/A	7 d PTFLD	D				
	Clincher SF	2.38	EC	10	FL OZ/A	10 DAD	E				
	Agri-Dex		L	32	FL OZ/A	10 DAD	E				
	Standard Deviation							2.3	1.5	6.9	9.4
	CV							2.54	1.69	8.5	5.83

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Regiment and Adjuvant Combinations

Trial ID: 06-WS-09
Location: DREC

Objective:
To determine the effectiveness of different adjuvant systems combined with Regiment.

Conclusions:
Regiment in combination with Kinetic HV (organosilicone-based adjuvant) plus urea-ammonium nitrate (UAN) or Dyne-A-Pak (methylated seed oil plus UAN adjuvant) was compared with Stam M-4 plus Facet for efficacy against grass and broadleaf weeds. Weeds evaluated included hemp sesbania (SEBEX), ivyleaf morningglory (IPOHE), pitted morningglory (IPOLA), barnyardgrass (ECHCG), browntop millet (PANRA), and Amazon sprangletop (LEFPA). Rice injury was no more than 4% 14 days after application. By 21 days after application, control of SEBEX, IPOHE, and IPOLA was at least 95%. However, neither Regiment treatment controlled these species equivalent to Stam M-4 plus Facet until 21 days after treatment. Until 21 days after application, SEBEX control was higher from Regiment plus Kinetic HV and UAN compared with Regiment plus Dyne-A-Pak. All treatments controlled ECHCG at least 88% until 35 days after application. By 35 days after application, ECHCG control from Regiment plus Kinetic HV and UAN was higher than that from all other treatments. This data indicate that Kinetic HV and UAN is a slightly better adjuvant combination for Regiment than Dyne-A-Pak.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: Cocodrie **Description:** Conventional variety
BBCH Scale: BRIC **Planting Date:** 15-May-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 72 F
Soil Moisture: Adequate **Emergence Date:** 23-May-06
Harvest Date: 13-Sep-06 **Harvest Equipment:** Mitsubishi VM-13
Harvested Width, Unit: 2.66 15 **Harvested Length, Unit:** 15 FT
% Standard Moisture: 12.0

Pest Description

Pest 1 Type: W **Code:** SEBEX *Sesbania exaltata*
Common Name: Hemp sesbania

Pest 2 Type: W **Code:** IPOHE *Ipomoea hederacea*
Common Name: Ivyleaf morningglory

Pest 3 Type: W **Code:** IPOLA *Ipomoea lacunosa*
Common Name: Pitted morningglory

Pest 4 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Barnyardgrass

Pest 5 Type: W **Code:** PANRA *Brachiaria ramosa*
Common Name: Browntop millet

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Complete Block
% Slope: 0.1 **Soil Drainage:** G Good

Mississippi State University Delta Research and Extension Center
Regiment and Adjuvant Combinations

Trial ID: 06-WS-09
Location: DREC

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	14-Jun-06	Urea (46:0:0)	46	GR	325	LB/A
2.	15-Jun-06	Karate Z	2.08	CS	2	FL OZ/A
3.	25-Jul-06	Ultra Blazer	2	L	1	PT/A

Comment: Ultra Blazer application on 25-Jul-06 was made to control hemp sesbania so that the experiment could be harvested.

Field Prep./Maintenance:
Tillage - Triple-K, 3-May-06 and 15-May-06.

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 0.5 **Unit:** MI

	Date	Type
1.	22-May-06	Flush
2.	6-Jun-06	Flush
3.	15-Jun-06	Flood
4.	5-Sep-06	Drain

Application Description

	A	B
Application Date:	19-May-06	5-Jun-06
Time of Day:	7:00 am	2:30 pm
Application Method:	Broadcast	Broadcast
Application Timing:	DPRE	MPOST
Application Placement:	Soil	Foliar
Applied By:	JAB	JAB
Air Temperature, Unit:	68 F	94 F
% Relative Humidity:	54	50
Wind Velocity, Unit:	1 MPH	3 MPH
Wind Direction:	NE	NE
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	67 F	74 F
Soil Moisture:	Adequate	Adequate
% Cloud Cover:	50	5

Mississippi State University Delta Research and Extension Center
Regiment and Adjuvant Combinations

Trial ID: 06-WS-09
Location: DREC

Crop Stage At Each Application

	A	B
Crop 1 Code:	ORYSA	ORYSA
Stage Majority, Percent:		3 leaf
Stage Minimum, Percent:		3 leaf
Stage Maximum, Percent:		4 leaf
Height, Unit:		7 IN
Height Minimum, Maximum:		6 8

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SEBEX W	SEBEX W
Stage Majority, Percent:		4 leaf
Stage Minimum, Percent:		3 leaf
Stage Maximum, Percent:		4 leaf
Height, Unit:		4 IN
Height Minimum, Maximum:		3 4
Density, Unit:		4 FT2
Pest 2 Code, Disc., Scale:	IPOHE W	IPOHE W
Stage Majority, Percent:		2 leaf
Stage Minimum, Percent:		2 leaf
Stage Maximum, Percent:		3 leaf
Height, Unit:		2 IN
Height Minimum, Maximum:		2 2
Density, Unit:		3 FT2
Pest 3 Code, Disc., Scale:	IPOLA W	IPOLA W
Stage Majority, Percent:		2 leaf
Stage Minimum, Percent:		2 leaf
Stage Maximum, Percent:		3 leaf
Height, Unit:		2 IN
Height Minimum, Maximum:		2 2
Density, Unit:		3 FT2
Pest 4 Code, Disc., Scale:	ECHCG W	ECHCG W
Stage Majority, Percent:		3 leaf
Stage Minimum, Percent:		2 leaf
Stage Maximum, Percent:		3 leaf
Height, Unit:		2 IN
Height Minimum, Maximum:		1 3
Density, Unit:		6 FT2
Pest 5 Code, Disc., Scale:	PANRA W	PANRA W
Stage Majority, Percent:		2 leaf
Stage Minimum, Percent:		2 leaf
Stage Maximum, Percent:		3 leaf
Height, Unit:		2 IN
Height Minimum, Maximum:		1 3
Density, Unit:		5 FT2

Mississippi State University Delta Research and Extension Center
Regiment and Adjuvant Combinations

Trial ID: 06-WS-09
Location: DREC

Application Equipment

	A	B
Appl. Equipment:	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	38 PSI	24 PSI
Nozzle Type:	AI	DG
Nozzle Size:	11015VS	11002VS
Nozzle Spacing, Unit:	20 IN	20 IN
Nozzles/Row:	3	3
Boom Length, Unit:	60 IN	60 IN
Boom Height, Unit:	16 IN	18
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA

Date	By	Notes
19-Jun-06	JAB	A large proportion of morningglory species and browntop millet were killed by floodwater.

Mississippi State University Delta Research and Extension Center
Regiment and Adjuvant Combinations

Trial ID: 06-WS-09
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	7	8	9
Pest Code											SEBEX	SEBEX	SEBEX
Rating Date								5-Jun-06	12-Jun-06	19-Jun-06	5-Jun-06	12-Jun-06	19-Jun-06
Rating Data Type								Rice Injury	Rice Injury	Rice Injury	Control	Control	Control
Rating Unit								%	%	%	%	%	%
Days After First/Last Applic.								17 0	24 7	31 14	17 0	24 7	31 14
Trt-Eval Interval								17 DA-A	7 DA-B	14 DA-B	17 DA-A	7 DA-B	14 DA-B
1	Nontreated							0 a	0 c	0 c	0 a	0 d	0 c
2	Command	3	ME	0.8	PT/A	DPRE	A	0 a	2 b	4 a	0 a	89 b	94 a
	Regiment	80	WP	0.5	OZ/A	MPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	MPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	MPOST	B						
3	Command	3	ME	0.8	PT/A	DPRE	A	0 a	0 c	3 b	5 a	80 c	87 b
	Regiment	80	WP	0.5	OZ/A	MPOST	B						
	Dyne-A-Pak		AJ	28.8	FL OZ/A	MPOST	B						
4	Command	3	ME	0.8	PT/A	DPRE	A	0 a	5 a	0 c	5 a	98 a	97 a
	Stam M-4	4	SL	4	QT/A	MPOST	B						
	Facet	75	DF	0.5	LB/A	MPOST	B						
Standard Deviation								0.0	0.9	0.6	4.1	3.9	2.1
CV								0.0	53.29	32.99	163.3	5.89	3.09

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	10	11	12	13	14	15
Pest Code								SEBEX	SEBEX	SEBEX	IPOHE	IPOHE	IPOHE
Rating Date								26-Jun-06	3-Jul-06	10-Jul-06	5-Jun-06	12-Jun-06	19-Jun-06
Rating Data Type								Control	Control	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%
Days After First/Last Applic.								38 21	45 28	52 35	17 0	24 7	31 14
Trt-Eval Interval								21 DA-B	28 DA-B	35 DA-B	17 DA-A	7 DA-B	14 DA-B
1	Nontreated							0 b	0 b	0 b	0 a	0 c	0 c
2	Command	3	ME	0.8	PT/A	DPRE	A	97 a	97 a	97 a	4 a	73 b	90 b
	Regiment	80	WP	0.5	OZ/A	MPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	MPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	MPOST	B						
3	Command	3	ME	0.8	PT/A	DPRE	A	95 a	96 a	99 a	3 a	68 b	88 b
	Regiment	80	WP	0.5	OZ/A	MPOST	B						
	Dyne-A-Pak		AJ	28.8	FL OZ/A	MPOST	B						
4	Command	3	ME	0.8	PT/A	DPRE	A	97 a	99 a	99 a	5 a	98 a	98 a
	Stam M-4	4	SL	4	QT/A	MPOST	B						
	Facet	75	DF	0.5	LB/A	MPOST	B						
Standard Deviation								2.4	3.0	2.3	3.6	3.5	2.2
CV								3.3	4.17	3.05	126.58	5.94	3.2

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Regiment and Adjuvant Combinations

Trial ID: 06-WS-09
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	16	17	18	19	20	21
Pest Code								IPOHE	IPOHE	IPOHE	IPOLA	IPOLA	IPOLA
Rating Date								26-Jun-06	3-Jul-06	10-Jul-06	12-Jun-06	19-Jun-06	26-Jun-06
Rating Data Type								Control	Control	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%
Days After First/Last Applic.								38 21	45 28	52 35	24 7	31 14	38 21
Trt-Eval Interval								21 DA-B	28 DA-B	35 DA-B	7 DA-B	14 DA-B	21 DA-B
1	Nontreated							0 b	0 b	0 b	0 c	0 c	0 b
2	Command	3	ME	0.8	PT/A	DPRE	A	98 a	99 a	99 a	70 b	90 b	98 a
	Regiment	80	WP	0.5	OZ/A	MPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	MPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	MPOST	B						
3	Command	3	ME	0.8	PT/A	DPRE	A	98 a	99 a	99 a	66 b	90 b	98 a
	Regiment	80	WP	0.5	OZ/A	MPOST	B						
	Dyne-A-Pak		AJ	28.8	FL OZ/A	MPOST	B						
4	Command	3	ME	0.8	PT/A	DPRE	A	98 a	99 a	99 a	98 a	98 a	98 a
	Stam M-4	4	SL	4	QT/A	MPOST	B						
	Facet	75	DF	0.5	LB/A	MPOST	B						
Standard Deviation								0.0	0.0	0.0	2.7	2.0	0.0
CV								0.0	0.0	0.0	4.56	2.94	0.0

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	22	23	24	25	26	27
Pest Code								IPOLA	IPOLA	ECHCG	ECHCG	ECHCG	ECHCG
Rating Date								3-Jul-06	10-Jul-06	5-Jun-06	12-Jun-06	19-Jun-06	26-Jun-06
Rating Data Type								Control	Control	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%
Days After First/Last Applic.								45 28	52 35	17 0	24 7	31 14	38 21
Trt-Eval Interval								28 DA-B	35 DA-B	17 DA-A	7 DA-B	14 DA-B	21 DA-B
1	Nontreated							0 b	0 b	0 b	0 c	0 b	0 b
2	Command	3	ME	0.8	PT/A	DPRE	A	99 a	99 a	90 a	78 b	89 a	90 a
	Regiment	80	WP	0.5	OZ/A	MPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	MPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	MPOST	B						
3	Command	3	ME	0.8	PT/A	DPRE	A	99 a	99 a	90 a	80 b	88 a	88 a
	Regiment	80	WP	0.5	OZ/A	MPOST	B						
	Dyne-A-Pak		AJ	28.8	FL OZ/A	MPOST	B						
4	Command	3	ME	0.8	PT/A	DPRE	A	96 a	99 a	93 a	88 a	88 a	89 a
	Stam M-4	4	SL	4	QT/A	MPOST	B						
	Facet	75	DF	0.5	LB/A	MPOST	B						
Standard Deviation								3.5	0.0	2.8	4.1	2.1	3.6
CV								4.77	0.0	4.06	6.67	3.16	5.35

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Regiment and Adjuvant Combinations

Trial ID: 06-WS-09
Location: DREC

Pest Code								ECHCG	ECHCG	PANRA	PANRA	PANRA	PANRA
Rating Date								3-Jul-06	10-Jul-06	5-Jun-06	19-Jun-06	26-Jun-06	3-Jul-06
Rating Data Type								Control	Control	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%
Days After First/Last Applic.								45 28	52 35	17 0	31 14	38 21	45 28
Trt-Eval Interval								28 DA-B	35 DA-B	17 DA-A	14 DA-B	21 DA-B	28 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	28	29	30	31	32	33
1	Nontreated							0 b	0 d	0 b	0 b	0 b	0 c
2	Command	3	ME	0.8	PT/A	DPRE	A	95 a	94 a	91 a	88 a	97 a	98 ab
	Regiment	80	WP	0.5	OZ/A	MPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	MPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	MPOST	B						
3	Command	3	ME	0.8	PT/A	DPRE	A	93 a	89 b	91 a	86 a	96 a	99 a
	Regiment	80	WP	0.5	OZ/A	MPOST	B						
	Dyne-A-Pak		AJ	28.8	FL OZ/A	MPOST	B						
4	Command	3	ME	0.8	PT/A	DPRE	A	92 a	80 c	93 a	84 a	93 a	96 b
	Stam M-4	4	SL	4	QT/A	MPOST	B						
	Facet	75	DF	0.5	LB/A	MPOST	B						
Standard Deviation								3.4	2.5	3.3	3.4	2.9	1.3
CV								4.84	3.81	4.85	5.34	4.09	1.82

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Pest Code								PANRA	LEFPA	LEFPA	
Rating Date								10-Jul-06	3-Jul-06	10-Jul-06	13-Sep-06
Rating Data Type								Control	Control	Control	Yield
Rating Unit								%	%	%	bu/A
Days After First/Last Applic.								52 35	45 28	52 35	
Trt-Eval Interval								35 DA-B	28 DA-B	35 DA-B	
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	34	35	36	39
1	Nontreated							0 b	0 b	0 c	69 b
2	Command	3	ME	0.8	PT/A	DPRE	A	98 a	88 a	86 b	173 a
	Regiment	80	WP	0.5	OZ/A	MPOST	B				
	Kinetic HV		SF	4.8	FL OZ/A	MPOST	B				
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	MPOST	B				
3	Command	3	ME	0.8	PT/A	DPRE	A	98 a	89 a	86 b	174 a
	Regiment	80	WP	0.5	OZ/A	MPOST	B				
	Dyne-A-Pak		AJ	28.8	FL OZ/A	MPOST	B				
4	Command	3	ME	0.8	PT/A	DPRE	A	94 a	92 a	93 a	172 a
	Stam M-4	4	SL	4	QT/A	MPOST	B				
	Facet	75	DF	0.5	LB/A	MPOST	B				
Standard Deviation								3.6	3.0	2.6	10.7
CV								4.92	4.45	3.98	7.28

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Regiment and Ricestar HT Combinations

Trial ID: 06-WS-10
Location: DREC

Objective:
To evaluate tank mixtures of Regiment and different rates of Ricestar HT applied at an EPOST or LPOST application timing for control of *Leptochloa* spp. and *Brachiaria* spp.

Conclusions:
Regiment does not control *Leptochloa* spp. (Amazon sprangletop) or *Brachiaria* spp. (browntop millet). Furthermore, tank mixtures of Ricestar HT and other herbicides have historically been discouraged. This experiment was designed to determine a tank-mix rate of Ricestar HT to include with Regiment that would control *Leptochloa* spp. and *Brachiaria* spp. without reducing Regiment efficacy. Regiment in tank mixture with Ricestar HT at 10, 14, or 17 FL OZ/A was applied to 1- to 2-leaf rice (EPOST) or 4-leaf to 1-tiller rice (LPOST). Weeds evaluated included hemp sesbania (SEBEX), ivyleaf morningglory (IPOHE), pitted morningglory (IPOLA), barnyardgrass (ECHCG), browntop millet (PANRA), and Amazon sprangletop (LEFPA). Rice injury was minimal from all treatments. All treatments containing Regiment controlled SEBEX. Late-season SEBEX control was lower following EPOST compared with LPOST applications of Regiment due to weeds that emerged after the EPOST application. Clincher SF or Regiment plus Ricestar HT combinations controlled ECHCG better than Ricestar HT alone. At the same evaluation, all EPOST Regiment treatments controlled ECHCG more than LPOST applications of Clincher SF or Ricestar HT. Only minor differences in PANRA control were detected 28 days after LPOST applications. Regiment applied alone at an EPOST or LPOST timing controlled LEFPA less than all Regiment plus Ricestar HT combinations or Clincher SF or Ricestar HT applied alone. Regiment plus Ricestar HT combinations were effective in controlling PANRA and LEFPA at EPOST and LPOST application timings.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: Cocodrie **Description:** Conventional variety
BBCH Scale: BRIC **Planting Date:** 15-May-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 72 F
Soil Moisture: Adequate **Emergence Date:** 23-May-06
Harvest Date: 21-Sep-06 **Harvest Equipment:** Mitsubishi VM-13
Harvested Width, Unit: 2.66 FT **Harvested Length, Unit:** 15 FT
% Standard Moisture: 12.0

Pest Description

Pest 1 Type: W **Code:** SEBEX *Sesbania exaltata*
Common Name: Hemp sesbania

Pest 2 Type: W **Code:** IPOHE *Ipomoea hederacea*
Common Name: Ivyleaf morningglory

Pest 3 Type: W **Code:** IPOLA *Ipomoea lacunosa*
Common Name: Pitted morningglory

Pest 4 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Barnyardgrass

Pest 5 Type: W **Code:** PANRA *Brachiaria ramosa*
Common Name: Browntop millet

Pest 6 Type: W **Code:** LEFPA *Leptochloa panicoides*
Common Name: Amazon sprangletop

Mississippi State University Delta Research and Extension Center
Regiment and Ricestar HT Combinations

Trial ID: 06-WS-10
Location: DREC

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Complete Block
% Slope: 0.1 **Soil Drainage:** G Good

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	14-Jun-06	Urea (46:0:0)	46	GR	325	LB/A
2.	15-Jun-06	Karate Z	2.08	CS	2	FL OZ/A
3.	25-Jul-06	Ultra Blazer	2	L	1	PT/A

Comment: Ultra Blazer application on 25-Jul-06 was made to control hemp sesbania so that the experiment could be harvested.

Field Prep./Maintenance:
Tillage - Triple-K, 3-May-06 and 15-May-06.

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 0.5 **Unit:** MI

	Date	Type
1.	22-May-06	Flush
2.	6-Jun-06	Flush
3.	15-Jun-06	Flood
4.	5-Sep-06	Drain

Mississippi State University Delta Research and Extension Center
Regiment and Ricestar HT Combinations

Trial ID: 06-WS-10
Location: DREC

Application Description

	A	B
Application Date:	31-May-06	12-Jun-06
Time of Day:	8:30 am	9:30 am
Application Method:	Broadcast	Broadcast
Application Timing:	EPOST	LPOST
Application Placement:	Foliar	Foliar
Applied By:	JAB	JAB
Air Temperature, Unit:	75 F	94 F
% Relative Humidity:	70	49
Wind Velocity, Unit:	4 MPH	4 MPH
Wind Direction:	NW	NW
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	76 F	78 F
Soil Moisture:	Excessive	Adequate
% Cloud Cover:	95	5

Crop Stage At Each Application

	A	B
Crop 1 Code:	ORYSA	ORYSA
Stage Majority, Percent:	2 leaf	1 tiller
Stage Minimum, Percent:	2 leaf	1 tiller
Stage Maximum, Percent:	3 leaf	2 Tiller
Height, Unit:	5 IN	8 IN
Height Minimum, Maximum:	4 6	7 9

Mississippi State University Delta Research and Extension Center
Regiment and Ricestar HT Combinations

Trial ID: 06-WS-10
Location: DREC

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SEBEX W	SEBEX W
Stage Majority, Percent:	2 leaf	6 leaf
Stage Minimum, Percent:	1 leaf	5 leaf
Stage Maximum, Percent:	2 leaf	6 leaf
Height, Unit:	2 IN	6 IN
Height Minimum, Maximum:	2 2	5 7
Density, Unit:	7 FT2	6 FT2
Pest 2 Code, Disc., Scale:	IPOHE W	IPOHE W
Stage Majority, Percent:	1 leaf	4 leaf
Stage Minimum, Percent:	1 leaf	4 leaf
Stage Maximum, Percent:	1 leaf	5 leaf
Height, Unit:	1 IN	5 IN
Height Minimum, Maximum:	1 2	4 5
Density, Unit:	3 FT2	3 FT2
Pest 3 Code, Disc., Scale:	IPOLA W	IPOLA W
Stage Majority, Percent:	1 leaf	4 leaf
Stage Minimum, Percent:	1 leaf	4 leaf
Stage Maximum, Percent:	1 leaf	5 leaf
Height, Unit:	1 IN	5 IN
Height Minimum, Maximum:	1 2	4 5
Density, Unit:	2 FT2	2 FT2
Pest 4 Code, Disc., Scale:	ECHCG W	ECHCG W
Stage Majority, Percent:	2 leaf	1 till
Stage Minimum, Percent:	1 leaf	4 leaf
Stage Maximum, Percent:	2 leaf	1 till
Height, Unit:	2 IN	4 IN
Height Minimum, Maximum:	1 2	4 5
Density, Unit:	6 FT2	5 FT2
Pest 5 Code, Disc., Scale:	PANRA W	PANRA W
Stage Majority, Percent:	1 leaf	4 leaf
Stage Minimum, Percent:	1 leaf	4 leaf
Stage Maximum, Percent:	2 leaf	1 till
Height, Unit:	0.5 IN	4 IN
Height Minimum, Maximum:	0.25 0.5	3 5
Density, Unit:	4	4 FT2
Pest 6 Code, Disc., Scale:	LEFPA W	LEFPA W
Stage Majority, Percent:		3 leaf
Stage Minimum, Percent:		2 leaf
Stage Maximum, Percent:		3 leaf
Height, Unit:		3 IN
Height Minimum, Maximum:		2 4
Density, Unit:		5 FT2

Mississippi State University Delta Research and Extension Center
Regiment and Ricestar HT Combinations

Trial ID: 06-WS-10
Location: DREC

Application Equipment

	A	B
Appl. Equipment:	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	24 PSI	24 MPH
Nozzle Type:	DG	DG
Nozzle Size:	11002VS	11002VS
Nozzle Spacing, Unit:	20 IN	20 IN
Boom Length, Unit:	60 IN	60 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA

Date	By	Notes
19-Jun-06	JAB	A new flush of grass occurred in plots that received EPOST application.
26-Jun-06	JAB	A large proportion of morningglory species and browntop millet were killed by floodwater.
7-Aug-06	JAB	Browntop millet had begun to dry down, so this species was not evaluated.

Mississippi State University Delta Research and Extension Center
Regiment and Ricestar HT Combinations

Trial ID: 06-WS-10
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	10	11
	Pest Code											SEBEX	SEBEX
	Rating Date							3-Jun-06	7-Jun-06	13-Jun-06	19-Jun-06	3-Jun-06	7-Jun-06
	Rating Data Type							Rice Injury	Rice Injury	Rice Injury	Rice Injury	Control	Control
	Rating Unit							%	%	%	%	%	%
	Days After First/Last Applic.							3 3	7 7	13 1	19 7	3 3	7 7
	Trt-Eval Interval							3 DA-A	7 DA-A	13 DA-A	19 DA-A	3 DA-A	7 DA-A
1	Nontreated							0 b	0 c	0 a	0 b	0 c	0 b
2	Regiment	80	WP	0.5	OZ/A	EPOST	A	3 ab	3 a	2 a	0 b	43 a	91 a
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
3	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A	0 b	1 bc	1 a	0 b	0 c	0 b
4	Regiment	80	WP	0.5	OZ/A	EPOST	A	1 b	2 ab	2 a	0 b	38 ab	93 a
	Ricestar HT	0.58	EC	10	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
5	Regiment	80	WP	0.5	OZ/A	EPOST	A	2 ab	4 a	3 a	1 b	40 ab	92 a
	Ricestar HT	0.58	EC	14	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
6	Regiment	80	WP	0.5	OZ/A	EPOST	A	4 a	3 a	3 a	1 b	35 b	94 a
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
7	Clincher SF	2.38	EC	13	FL OZ/A	EPOST	A	0 b	0 c	1 a	0 b	0 c	0 b
	Agri-Dex		L	32	FL OZ/A	EPOST	A						
8	Regiment	80	WP	0.5	OZ/A	LPOST	B				0 b		
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
9	Ricestar HT	0.58	EC	17	FL OZ/A	LPOST	B				0 b		
10	Regiment	80	WP	0.5	OZ/A	LPOST	B				1 b		
	Ricestar HT	0.58	EC	10	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
11	Regiment	80	WP	0.5	OZ/A	LPOST	B				2 a		
	Ricestar HT	0.58	EC	14	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
12	Regiment	80	WP	0.5	OZ/A	LPOST	B				2 a		
	Ricestar HT	0.58	EC	17	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
13	Clincher SF	2.38	EC	13	FL OZ/A	LPOST	B				0 b		
	Agri-Dex		L	32	FL OZ/A	LPOST	B						
	Standard Deviation							1.7	1.3	1.8	0.9	4.6	1.9
	CV							117.75	71.99	112.31	181.14	20.71	3.63

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Regiment and Ricestar HT Combinations

Trial ID: 06-WS-10
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	12	13	14	15	16	17
Pest Code								SEBEX	SEBEX	SEBEX	SEBEX	SEBEX	SEBEX
Rating Date								13-Jun-06	19-Jun-06	26-Jun-06	3-Jul-06	10-Jul-06	17-Jul-06
Rating Data Type								Control	Control	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%
Days After First/Last Applic.								13 1	19 7	26 14	33 21	40 28	47 35
Trt-Eval Interval								13 DA-A	19 DA-A	14 DA-B	21 DA-B	28 DA-B	35 DA-B
1	Nontreated							0 b	0 c	0 c	0 c	0 c	0 c
2	Regiment	80	WP	0.5	OZ/A	EPOST	A	91 a	90 ab	90 b	89 b	89 b	86 b
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
3	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A	0 b	0 c	0 c	0 c	0 c	0 c
4	Regiment	80	WP	0.5	OZ/A	EPOST	A	93 a	91 a	91 b	88 b	86 b	84 b
	Ricestar HT	0.58	EC	10	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
5	Regiment	80	WP	0.5	OZ/A	EPOST	A	93 a	93 a	90 b	90 b	89 b	88 b
	Ricestar HT	0.58	EC	14	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
6	Regiment	80	WP	0.5	OZ/A	EPOST	A	93 a	90 ab	90 b	89 b	88 b	85 b
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
7	Clincher SF	2.38	EC	13	FL OZ/A	EPOST	A	0 b	0 c	0 c	0 c	0 c	0 c
	Agri-Dex		L	32	FL OZ/A	EPOST	A						
8	Regiment	80	WP	0.5	OZ/A	LPOST	B		87 b	95 a	99 a	99 a	98 a
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
9	Ricestar HT	0.58	EC	17	FL OZ/A	LPOST	B		0 c	0 c	0 c	0 c	0 c
10	Regiment	80	WP	0.5	OZ/A	LPOST	B		89 ab	95 a	99 a	99 a	98 a
	Ricestar HT	0.58	EC	10	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
11	Regiment	80	WP	0.5	OZ/A	LPOST	B		89 ab	95 a	99 a	99 a	98 a
	Ricestar HT	0.58	EC	14	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
12	Regiment	80	WP	0.5	OZ/A	LPOST	B		90 ab	95 a	99 a	99 a	97 a
	Ricestar HT	0.58	EC	17	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
13	Clincher SF	2.38	EC	13	FL OZ/A	LPOST	B		0 c	0 c	0 c	0 c	0 c
	Agri-Dex		L	32	FL OZ/A	LPOST	B						
Standard Deviation								2.7	2.5	2.0	2.3	2.7	3.9
CV								5.13	4.45	3.51	3.93	4.68	6.97

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Regiment and Ricestar HT Combinations

Trial ID: 06-WS-10
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	IPOHE 3-Jun-06 Control % 3 3 3 DA-A 18	IPOHE 7-Jun-06 Control % 7 7 7 DA-A 19	IPOHE 13-Jun-06 Control % 13 1 13 DA-A 20	IPOHE 19-Jun-06 Control % 19 7 19 DA-A 21	IPOHE 26-Jun-06 Control % 26 14 14 DA-B 22	IPOHE 3-Jul-06 Control % 33 21 21 DA-B 23
1	Nontreated							0 b	0 c	0 b	0 d	0 c	0 c
2	Regiment	80	WP	0.5	OZ/A	EPOST	A	44 a	81 a	81 a	90 a	95 a	96 a
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
3	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A	0 b	0 c	0 b	0 d	43 b	33 b
4	Regiment	80	WP	0.5	OZ/A	EPOST	A	44 a	76 b	80 a	91 a	95 a	95 a
	Ricestar HT	0.58	EC	10	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
5	Regiment	80	WP	0.5	OZ/A	EPOST	A	45 a	78 ab	80 a	91 a	93 a	96 a
	Ricestar HT	0.58	EC	14	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
6	Regiment	80	WP	0.5	OZ/A	EPOST	A	44 a	81 a	84 a	93 a	95 a	95 a
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
7	Clincher SF	2.38	EC	13	FL OZ/A	EPOST	A	0 b	0 c	0 b	0 d	25 b	25 b
	Agri-Dex		L	32	FL OZ/A	EPOST	A						
8	Regiment	80	WP	0.5	OZ/A	LPOST	B				63 c	93 a	98 a
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
9	Ricestar HT	0.58	EC	17	FL OZ/A	LPOST	B				0 d	28 b	30 b
10	Regiment	80	WP	0.5	OZ/A	LPOST	B				66 bc	88 a	99 a
	Ricestar HT	0.58	EC	10	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
11	Regiment	80	WP	0.5	OZ/A	LPOST	B				63 c	91 a	99 a
	Ricestar HT	0.58	EC	14	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
12	Regiment	80	WP	0.5	OZ/A	LPOST	B				69 b	91 a	99 a
	Ricestar HT	0.58	EC	17	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
13	Clincher SF	2.38	EC	13	FL OZ/A	LPOST	B				0 d	33 b	35 b
	Agri-Dex		L	32	FL OZ/A	LPOST	B						
Standard Deviation								4.9	2.8	3.2	3.0	13.3	12.2
CV								19.62	6.24	6.95	6.23	19.99	17.7

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Regiment and Ricestar HT Combinations

Trial ID: 06-WS-10
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	24	25	26	27	28	29
	Pest Code							IPOHE	IPOHE	IPOLA	IPOLA	IPOLA	IPOLA
	Rating Date							10-Jul-06	17-Jul-06	13-Jun-06	19-Jun-06	26-Jun-06	3-Jul-06
	Rating Data Type							Control	Control	Control	Control	Control	Control
	Rating Unit							%	%	%	%	%	%
	Days After First/Last Applic.							40 28	47 35	13 1	19 7	26 14	33 21
	Trt-Eval Interval							28 DA-B	35 DA-B	13 DA-A	19 DA-A	14 DA-B	21 DA-B
1	Nontreated							0 c	0 c	0 b	0 d	0 d	0 c
2	Regiment	80	WP	0.5	OZ/A	EPOST	A	96 a	95 a	80 a	90 a	93 a	98 a
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
3	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A	28 b	28 b	0 b	0 d	30 b	30 b
4	Regiment	80	WP	0.5	OZ/A	EPOST	A	95 a	93 a	79 a	91 a	95 a	95 a
	Ricestar HT	0.58	EC	10	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
5	Regiment	80	WP	0.5	OZ/A	EPOST	A	95 a	95 a	84 a	93 a	94 a	94 a
	Ricestar HT	0.58	EC	14	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
6	Regiment	80	WP	0.5	OZ/A	EPOST	A	95 a	93 a	80 a	90 a	95 a	95 a
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
7	Clincher SF	2.38	EC	13	FL OZ/A	EPOST	A	30 b	33 b	0 b	0 d	29 b	28 b
	Agri-Dex		L	32	FL OZ/A	EPOST	A						
8	Regiment	80	WP	0.5	OZ/A	LPOST	B	99 a	95 a		63 c	89 a	99 a
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
9	Ricestar HT	0.58	EC	17	FL OZ/A	LPOST	B	33 b	28 b		0 d	15 c	30 b
10	Regiment	80	WP	0.5	OZ/A	LPOST	B	99 a	95 a		66 bc	85 a	99 a
	Ricestar HT	0.58	EC	10	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
11	Regiment	80	WP	0.5	OZ/A	LPOST	B	99 a	95 a		63 c	93 a	99 a
	Ricestar HT	0.58	EC	14	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
12	Regiment	80	WP	0.5	OZ/A	LPOST	B	99 a	95 a		69 b	86 a	98 a
	Ricestar HT	0.58	EC	17	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
13	Clincher SF	2.38	EC	13	FL OZ/A	LPOST	B	30 b	30 b		0 d	33 b	35 b
	Agri-Dex		L	32	FL OZ/A	LPOST	B						
	Standard Deviation							6.6	7.1	4.6	3.1	8.9	8.0
	CV							9.52	10.63	10.02	6.42	13.87	11.5

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Regiment and Ricestar HT Combinations

Trial ID: 06-WS-10
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	30	31	32	33	34	35
	Pest Code							IPOLA	IPOLA	ECHCG	ECHCG	ECHCG	ECHCG
	Rating Date							10-Jul-06	17-Jul-06	3-Jun-06	7-Jun-06	13-Jun-06	19-Jun-06
	Rating Data Type							Control	Control	Control	Control	Control	Control
	Rating Unit							%	%	%	%	%	%
	Days After First/Last Applic.							40 28	47 35	3 3	7 7	13 1	19 7
	Trt-Eval Interval							28 DA-B	35 DA-B	3 DA-A	7 DA-A	13 DA-A	19 DA-A
1	Nontreated							0 c	0 e	0 d	0 b	0 b	0 e
2	Regiment	80	WP	0.5	OZ/A	EPOST	A	96 a	95 a	44 a	95 a	85 a	83 a
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
3	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A	35 b	40 b	31 bc	93 a	89 a	74 cd
4	Regiment	80	WP	0.5	OZ/A	EPOST	A	95 a	93 a	35 b	95 a	88 a	81 ab
	Ricestar HT	0.58	EC	10	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
5	Regiment	80	WP	0.5	OZ/A	EPOST	A	95 a	95 a	34 b	94 a	86 a	84 a
	Ricestar HT	0.58	EC	14	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
6	Regiment	80	WP	0.5	OZ/A	EPOST	A	95 a	93 a	38 ab	95 a	88 a	83 a
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
7	Clincher SF	2.38	EC	13	FL OZ/A	EPOST	A	30 b	30 c	25 c	93 a	86 a	80 abc
	Agri-Dex		L	32	FL OZ/A	EPOST	A						
8	Regiment	80	WP	0.5	OZ/A	LPOST	B	99 a	99 a				75 bcd
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
9	Ricestar HT	0.58	EC	17	FL OZ/A	LPOST	B	35 b	28 c				73 d
10	Regiment	80	WP	0.5	OZ/A	LPOST	B	99 a	99 a				73 d
	Ricestar HT	0.58	EC	10	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
11	Regiment	80	WP	0.5	OZ/A	LPOST	B	99 a	99 a				73 d
	Ricestar HT	0.58	EC	14	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
12	Regiment	80	WP	0.5	OZ/A	LPOST	B	99 a	99 a				75 bcd
	Ricestar HT	0.58	EC	17	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
13	Clincher SF	2.38	EC	13	FL OZ/A	LPOST	B	30 b	18 d				73 d
	Agri-Dex		L	32	FL OZ/A	LPOST	B						
	Standard Deviation							3.9	5.7	4.7	2.1	3.2	4.3
	CV							5.6	8.4	16.0	2.62	4.35	6.0

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Regiment and Ricestar HT Combinations

Trial ID: 06-WS-10
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	36	37	38	39	40	41
	Pest Code							ECHCG	ECHCG	ECHCG	ECHCG	ECHCG	PANRA
	Rating Date							26-Jun-06	3-Jul-06	10-Jul-06	17-Jul-06	7-Aug-06	3-Jun-06
	Rating Data Type							Control	Control	Control	Control	Control	Control
	Rating Unit							%	%	%	%	%	%
	Days After First/Last Applic.							26 14	33 21	40 28	47 35	68 56	3 3
	Trt-Eval Interval							14 DA-B	21 DA-B	28 DA-B	35 DA-B	56 DA-B	3 DA-A
1	Nontreated							0 f	0 f	0 e	0 f	0 e	0 d
2	Regiment	80	WP	0.5	OZ/A	EPOST	A	81 de	81 cde	80 b	76 b	63 bc	40 a
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
3	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A	74 e	74 e	48 d	45 e	43 d	29 c
4	Regiment	80	WP	0.5	OZ/A	EPOST	A	81 de	79 cde	73 bc	71 bc	56 cd	33 bc
	Ricestar HT	0.58	EC	10	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
5	Regiment	80	WP	0.5	OZ/A	EPOST	A	83 cd	83 cde	79 b	73 bc	74 b	31 bc
	Ricestar HT	0.58	EC	14	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
6	Regiment	80	WP	0.5	OZ/A	EPOST	A	81 de	81 cde	75 bc	66 bcd	64 bc	38 ab
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
7	Clincher SF	2.38	EC	13	FL OZ/A	EPOST	A	80 de	76 de	64 c	55 de	53 cd	25 c
	Agri-Dex		L	32	FL OZ/A	EPOST	A						
8	Regiment	80	WP	0.5	OZ/A	LPOST	B	90 abc	94 ab	95 a	95 a	93 a	
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
9	Ricestar HT	0.58	EC	17	FL OZ/A	LPOST	B	76 de	85 cd	71 bc	61 cd	58 bcd	
10	Regiment	80	WP	0.5	OZ/A	LPOST	B	91 ab	94 ab	95 a	94 a	91 a	
	Ricestar HT	0.58	EC	10	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
11	Regiment	80	WP	0.5	OZ/A	LPOST	B	91 ab	95 a	95 a	95 a	94 a	
	Ricestar HT	0.58	EC	14	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
12	Regiment	80	WP	0.5	OZ/A	LPOST	B	93 a	94 ab	95 a	95 a	94 a	
	Ricestar HT	0.58	EC	17	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
13	Clincher SF	2.38	EC	13	FL OZ/A	LPOST	B	84 bcd	86 bc	74 bc	69 bc	60 bc	
	Agri-Dex		L	32	FL OZ/A	LPOST	B						
	Standard Deviation							5.0	5.4	7.4	8.8	10.7	4.7
	CV							6.47	6.94	10.21	12.77	16.52	16.81

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Regiment and Ricestar HT Combinations

Trial ID: 06-WS-10
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	PANRA 7-Jun-06 Control % 7 7 7 DA-A 42	PANRA 13-Jun-06 Control % 13 1 13 DA-A 43	PANRA 19-Jun-06 Control % 19 7 19 DA-A 44	PANRA 26-Jun-06 Control % 26 14 14 DA-B 45	PANRA 3-Jul-06 Control % 33 21 21 DA-B 46	PANRA 10-Jul-06 Control % 40 28 28 DA-B 47
1	Nontreated							0 c	0 b	0 d	0 b	0 c	0 d
2	Regiment	80	WP	0.5	OZ/A	EPOST	A	85 b	79 a	83 a	93 a	93 b	91 bc
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
3	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A	94 a	79 a	80 a	94 a	93 b	90 c
4	Regiment	80	WP	0.5	OZ/A	EPOST	A	95 a	80 a	79 a	93 a	95 ab	91 bc
	Ricestar HT	0.58	EC	10	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
5	Regiment	80	WP	0.5	OZ/A	EPOST	A	95 a	80 a	81 a	94 a	94 ab	94 abc
	Ricestar HT	0.58	EC	14	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
6	Regiment	80	WP	0.5	OZ/A	EPOST	A	95 a	79 a	84 a	91 a	93 b	90 c
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
7	Clincher SF	2.38	EC	13	FL OZ/A	EPOST	A	95 a	79 a	76 ab	93 a	94 ab	93 bc
	Agri-Dex		L	32	FL OZ/A	EPOST	A						
8	Regiment	80	WP	0.5	OZ/A	LPOST	B			66 bc	93 a	96 a	97 a
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
9	Ricestar HT	0.58	EC	17	FL OZ/A	LPOST	B			69 bc	93 a	95 ab	93 bc
10	Regiment	80	WP	0.5	OZ/A	LPOST	B			66 bc	94 a	95 ab	95 ab
	Ricestar HT	0.58	EC	10	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
11	Regiment	80	WP	0.5	OZ/A	LPOST	B			64 c	91 a	95 ab	95 ab
	Ricestar HT	0.58	EC	14	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
12	Regiment	80	WP	0.5	OZ/A	LPOST	B			65 c	95 a	94 ab	95 ab
	Ricestar HT	0.58	EC	17	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
13	Clincher SF	2.38	EC	13	FL OZ/A	LPOST	B			74 abc	91 a	94 ab	91 bc
	Agri-Dex		L	32	FL OZ/A	LPOST	B						
Standard Deviation								0.9	3.9	6.4	3.3	2.1	2.7
CV								1.18	5.76	9.32	3.81	2.36	3.2

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Regiment and Ricestar HT Combinations

Trial ID: 06-WS-10
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	48	49	50	51	52	53
Pest Code								PANRA	LEFPA	LEFPA	LEFPA	LEFPA	LEFPA
Rating Date								17-Jul-06	26-Jun-06	3-Jul-06	10-Jul-06	17-Jul-06	7-Aug-06
Rating Data Type								Control	Control	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%
Days After First/Last Applic.								47 35	26 14	33 21	40 28	47 35	68 56
Trt-Eval Interval								35 DA-B	14 DA-B	21 DA-B	28 DA-B	35 DA-B	56 DA-B
1	Nontreated							0 c	0 f	0 g	0 c	0 e	0 e
2	Regiment	80	WP	0.5	OZ/A	EPOST	A	91 ab	68 e	64 f	48 b	35 d	33 d
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
3	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A	90 ab	91 a	86 ab	76 a	75 ab	74 ab
4	Regiment	80	WP	0.5	OZ/A	EPOST	A	88 b	75 de	75 cd	74 a	56 c	58 bc
	Ricestar HT	0.58	EC	10	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
5	Regiment	80	WP	0.5	OZ/A	EPOST	A	90 ab	80 cd	85 ab	79 a	71 abc	69 b
	Ricestar HT	0.58	EC	14	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
6	Regiment	80	WP	0.5	OZ/A	EPOST	A	91 ab	78 cd	83 abc	83 a	78 ab	71 ab
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
7	Clincher SF	2.38	EC	13	FL OZ/A	EPOST	A	88 b	91 a	84 abc	74 a	70 bc	68 b
	Agri-Dex		L	32	FL OZ/A	EPOST	A						
8	Regiment	80	WP	0.5	OZ/A	LPOST	B	95 a	74 de	65 ef	49 b	25 d	25 d
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
9	Ricestar HT	0.58	EC	17	FL OZ/A	LPOST	B	92 ab	90 ab	90 a	88 a	88 a	86 a
10	Regiment	80	WP	0.5	OZ/A	LPOST	B	94 a	86 abc	79 bcd	78 a	69 bc	69 b
	Ricestar HT	0.58	EC	10	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
11	Regiment	80	WP	0.5	OZ/A	LPOST	B	94 a	80 cd	73 de	74 a	71 abc	71 ab
	Ricestar HT	0.58	EC	14	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
12	Regiment	80	WP	0.5	OZ/A	LPOST	B	93 ab	83 a-d	84 abc	76 a	76 ab	71 ab
	Ricestar HT	0.58	EC	17	FL OZ/A	LPOST	B						
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B						
13	Clincher SF	2.38	EC	13	FL OZ/A	LPOST	B	88 b	81 bcd	80 bcd	70 a	56 c	51 c
	Agri-Dex		L	32	FL OZ/A	LPOST	B						
Standard Deviation								3.1	5.8	5.8	10.6	10.5	10.5
CV								3.71	7.66	7.94	15.89	17.77	18.32

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Regiment and Ricestar HT Combinations

Trial ID: 06-WS-10
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	56	
	Pest Code								
	Rating Date							21-Sep-06	
	Rating Data Type							Yield	
	Rating Unit							bu/A	
	Days After First/Last Applic.								
	Trt-Eval Interval								
1	Nontreated							87	f
2	Regiment	80	WP	0.5	OZ/A	EPOST	A	125	cd
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A		
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A		
3	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A	117	cd
4	Regiment	80	WP	0.5	OZ/A	EPOST	A	152	ab
	Ricestar HT	0.58	EC	10	FL OZ/A	EPOST	A		
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A		
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A		
5	Regiment	80	WP	0.5	OZ/A	EPOST	A	159	ab
	Ricestar HT	0.58	EC	14	FL OZ/A	EPOST	A		
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A		
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A		
6	Regiment	80	WP	0.5	OZ/A	EPOST	A	157	ab
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A		
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A		
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A		
7	Clincher SF	2.38	EC	13	FL OZ/A	EPOST	A	94	ef
	Agri-Dex		L	32	FL OZ/A	EPOST	A		
8	Regiment	80	WP	0.5	OZ/A	LPOST	B	137	bc
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B		
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B		
9	Ricestar HT	0.58	EC	17	FL OZ/A	LPOST	B	110	de
10	Regiment	80	WP	0.5	OZ/A	LPOST	B	159	ab
	Ricestar HT	0.58	EC	10	FL OZ/A	LPOST	B		
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B		
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B		
11	Regiment	80	WP	0.5	OZ/A	LPOST	B	165	a
	Ricestar HT	0.58	EC	14	FL OZ/A	LPOST	B		
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B		
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B		
12	Regiment	80	WP	0.5	OZ/A	LPOST	B	172	a
	Ricestar HT	0.58	EC	17	FL OZ/A	LPOST	B		
	Kinetic HV		SF	4.8	FL OZ/A	LPOST	B		
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	LPOST	B		
13	Clincher SF	2.38	EC	13	FL OZ/A	LPOST	B	107	def
	Agri-Dex		L	32	FL OZ/A	LPOST	B		
	Standard Deviation							14.4	
	CV							10.75	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Regiment and Permit Combinations

Trial ID: 06-WS-11
Location: DREC

Objective:
To determine the efficacy of Regiment when applied in a tank mixture with Permit at a MPOST or PTFLD application timing.

Conclusions:
This experiment was designed to evaluate tank mixtures of Regiment and Permit. Nutsedge species would be a primary target of Regiment plus Permit tank mixtures. However, no nutsedge was present in the test area in 2006. Weeds evaluated included hemp sesbania (SEBEX), ivyleaf morningglory (IPOHE), pitted morningglory (IPOLA), barnyardgrass (ECHCG), browntop millet (PANRA), and Amazon sprangletop (LEFPA). All treatments controlled SEBEX at least 98% by 14 days after application. At 21 days after application, control of IPOHE and IPOLA from Regiment applied to 3- to 4-leaf rice (MPOST) was equivalent to Stam M-4 plus Facet. IPOHE and IPOLA control from Regiment plus Permit applied 7 days after flooding (7 d PTFLD) was adequate (at least 80%) by 17 days after treatment; however, this treatment controlled IPOHE and IPOLA less than Stam M-4 plus Facet and Permit or Stam M-4 plus Facet followed by Permit. Treatments containing Regiment controlled ECHCG better than those containing Stam M-4 plus Facet at 35 days following the 7 d PTFLD application. PANRA was controlled better from treatments containing Stam M-4 plus Facet compared with those containing Regiment. This experiment would need to be repeated in an area where nutsedge is troublesome to determine the complete effectiveness of Regiment plus Permit tank mixtures.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: Cocodrie **Description:** Conventional variety
BBCH Scale: BRIC **Planting Date:** 15-May-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 72 F
Soil Moisture: Adequate **Emergence Date:** 23-May-06
Harvest Date: 13-Sep-06 **Harvest Equipment:** Mitsubishi VM-13
Harvested Width, Unit: 2.66 FT **Harvested Length, Unit:** 15 FT
% Standard Moisture: 12.0

Pest Description

Pest 1 Type: W **Code:** SEBEX *Sesbania exaltata*
Common Name: Hemp sesbania

Pest 2 Type: W **Code:** IPOHE *Ipomoea hederacea*
Common Name: Ivyleaf morningglory

Pest 3 Type: W **Code:** IPOLA *Ipomoea lacunosa*
Common Name: Pitted morningglory

Pest 4 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Barnyardgrass

Pest 5 Type: W **Code:** PANRA *Brachiaria ramosa*
Common Name: Browntop millet

Pest 6 Type: W **Code:** LEFPA *Leptochloa panicoides*
Common Name: Amazon sprangletop

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Complete Block
% Slope: 0.1 **Soil Drainage:** G Good

Mississippi State University Delta Research and Extension Center
Regiment and Permit Combinations

Trial ID: 06-WS-11
Location: DREC

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	14-Jun-06	Urea (46:0:0)	46	GR	325	LB/A
2.	15-Jun-06	Karate Z	2.08	CS	2	FL OZ/A
3.	25-Jul-06	Ultra Blazer	2	L	1	PT/A

Comment: Ultra Blazer application on 25-Jul-06 was made to control hemp sesbania so that the experiment could be harvested.

Field Prep./Maintenance:
Tillage - Triple-K, 3-May-06 and 15-May-06.

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 0.5 **Unit:** MI

	Date	Type
1.	22-May-06	Flush
2.	6-Jun-06	Flush
3.	15-Jun-06	Flood
4.	5-Sep-06	Drain

Application Description

	A	B
Application Date:	5-Jun-06	23-Jun-06
Time of Day:	2:15 pm	9:30 am
Application Method:	Broadcast	Broadcast
Application Timing:	MPOST	7d PTFLD
Application Placement:	Foliar	Foliar
Applied By:	JAB	JAB, LCV
Air Temperature, Unit:	94 F	86 F
% Relative Humidity:	50	68
Wind Velocity, Unit:	3 MPH	4 MPH
Wind Direction:	W	W
Dew Presence (Y/N):	N	Y
Soil Temperature, Unit:	76 F	
Soil Moisture:	Adequate	Flood
% Cloud Cover:	5	0

Mississippi State University Delta Research and Extension Center
Regiment and Permit Combinations

Trial ID: 06-WS-11
Location: DREC

Crop Stage At Each Application

	A	B
Crop 1 Code:	ORYSA	ORYSA
Stage Majority, Percent:	3 leaf	3 tiller
Stage Minimum, Percent:	3 leaf	3 tiller
Stage Maximum, Percent:	4 leaf	4 tiller
Height, Unit:	7 IN	12 IN
Height Minimum, Maximum:	6 8	11 13

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SEBEX W	SEBEX W
Stage Majority, Percent:	4 leaf	9 leaf
Stage Minimum, Percent:	3 leaf	8 leaf
Stage Maximum, Percent:	4 leaf	9 leaf
Height, Unit:	4 IN	15 IN
Height Minimum, Maximum:	3 4	10 18
Density, Unit:	4 FT2	4 FT2
Pest 2 Code, Disc., Scale:	IPOHE W	IPOHE W
Stage Majority, Percent:	2 leaf	8 leaf
Stage Minimum, Percent:	2 leaf	8 leaf
Stage Maximum, Percent:	3 leaf	9 leaf
Height, Unit:	3 IN	7 IN
Height Minimum, Maximum:	2 3	6 8
Density, Unit:	3 FT2	3 FT2
Pest 3 Code, Disc., Scale:	IPOLA W	IPOLA W
Stage Majority, Percent:	2 leaf	8 leaf
Stage Minimum, Percent:	2 leaf	8 leaf
Stage Maximum, Percent:	3 leaf	9 leaf
Height, Unit:	3 IN	7 IN
Height Minimum, Maximum:	2 3	6 8
Density, Unit:	3 FT2	3 FT2
Pest 4 Code, Disc., Scale:	ECHCG W	ECHCG W
Stage Majority, Percent:	2 leaf	6 till
Stage Minimum, Percent:	1 leaf	4 till
Stage Maximum, Percent:	2 leaf	9 till
Height, Unit:	2 IN	12 IN
Height Minimum, Maximum:	1 2	8 15
Density, Unit:	5 FT2	4 FT2
Pest 5 Code, Disc., Scale:	PANRA W	PANRA W
Stage Majority, Percent:	2 leaf	2 till
Stage Minimum, Percent:	1 leaf	4 leaf
Stage Maximum, Percent:	2 leaf	4 till
Height, Unit:	2 IN	5 IN
Height Minimum, Maximum:	1 2	4 7
Density, Unit:	3 FT2	3 FT2
Pest 6 Code, Disc., Scale:	LEFPA W	LEFPA W
Stage Majority, Percent:		1 till
Stage Minimum, Percent:		3 leaf
Stage Maximum, Percent:		1 till
Height, Unit:		7 IN
Height Minimum, Maximum:		6 8
Density, Unit:		6 FT2

Mississippi State University Delta Research and Extension Center
Regiment and Permit Combinations

Trial ID: 06-WS-11
Location: DREC

Application Equipment

	A	B
Appl. Equipment:	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	24 PSI	24 PSI
Nozzle Type:	DG	TT
Nozzle Size:	11002VS	11001
Nozzle Spacing, Unit:	20 IN	16 IN
Boom Length, Unit:	60 IN	64 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	2 MPH
Carrier:	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA

Date	By	Notes
19-Jun-06	JAB	A large proportion of morningglory species and browntop millet were killed by floodwater.

Mississippi State University Delta Research and Extension Center
Regiment and Permit Combinations

Trial ID: 06-WS-11
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	12-Jun-06 Rice Injury % 7 7 7 DA-A 1	19-Jun-06 Rice Injury % 14 14 14 DA-A 2	26-Jun-06 Rice Injury % 21 3 21 DA-A 3	SEBEX 12-Jun-06 Control % 7 7 7 DA-A 7	SEBEX 19-Jun-06 Control % 14 14 14 DA-A 8
1	Nontreated							0 c	0 a	0 a	0 c	0 b
2	Regiment	80	WP	0.5	OZ/A	MPOST	A	2 b	3 a	1 a	88 b	97 a
	Permit	75	WG	0.5	OZ/A	MPOST	A					
	Kinetic HV		SF	4.8	FL OZ/A	MPOST	A					
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	MPOST	A					
3	Stam M-4	4	SL	4	QT/A	MPOST	A	4 a	0 a	0 a	97 a	98 a
	Facet	75	DF	0.5	LB/A	MPOST	A					
	Permit	75	WG	0.5	OZ/A	MPOST	A					
4	Regiment	80	WP	0.6	OZ/A	7 D PTFLD	B					
	Permit	75	WG	0.6	OZ/A	7 D PTFLD	B					
	Kinetic HV		SF	4.8	FL OZ/A	7 D PTFLD	B					
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	7 D PTFLD	B					
5	Stam M-4	4	SL	4	QT/A	MPOST	A	5 a	2 a	0 a	98 a	98 a
	Facet	75	DF	0.5	LB/A	MPOST	A					
	Permit	75	WG	0.5	OZ/A	7 D PTFLD	B					
	Agri-Dex		L	32	FL OZ/A	7 D PTFLD	B					
Standard Deviation								1.0	2.2	1.3	1.8	0.8
CV								36.29	186.33	400.0	2.48	1.02

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SEBEX 26-Jun-06 Control % 21 3 21 DA-A 9	SEBEX 3-Jul-06 Control % 28 10 10 DA-B 10	SEBEX 10-Jul-06 Control % 35 17 17 DA-B 11	IPOHE 12-Jun-06 Control % 7 7 7 DA-A 12	IPOHE 19-Jun-06 Control % 14 14 14 DA-A 13	IPOHE 26-Jun-06 Control % 21 3 21 DA-A 14
1	Nontreated							0 c	0 c	0 b	0 c	0 c	0 c
2	Regiment	80	WP	0.5	OZ/A	MPOST	A	98 a	99 a	99 a	74 b	93 b	98 a
	Permit	75	WG	0.5	OZ/A	MPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	MPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	MPOST	A						
3	Stam M-4	4	SL	4	QT/A	MPOST	A	98 a	99 a	98 a	97 a	98 a	98 a
	Facet	75	DF	0.5	LB/A	MPOST	A						
	Permit	75	WG	0.5	OZ/A	MPOST	A						
4	Regiment	80	WP	0.6	OZ/A	7 D PTFLD	B	43 b	96 b	96 a			38 b
	Permit	75	WG	0.6	OZ/A	7 D PTFLD	B						
	Kinetic HV		SF	4.8	FL OZ/A	7 D PTFLD	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	7 D PTFLD	B						
5	Stam M-4	4	SL	4	QT/A	MPOST	A	98 a	99 a	98 a	98 a	98 a	98 a
	Facet	75	DF	0.5	LB/A	MPOST	A						
	Permit	75	WG	0.5	OZ/A	7 D PTFLD	B						
	Agri-Dex		L	32	FL OZ/A	7 D PTFLD	B						
Standard Deviation								6.7	1.9	2.2	1.2	2.0	2.2
CV								9.97	2.43	2.88	1.82	2.73	3.37

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Regiment and Permit Combinations

Trial ID: 06-WS-11
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	15	16	17	18	19	20
Pest Code								IPOHE	IPOHE	IPOLA	IPOLA	IPOLA	IPOLA
Rating Date								3-Jul-06	10-Jul-06	12-Jun-06	19-Jun-06	26-Jun-06	3-Jul-06
Rating Data Type								Control	Control	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%
Days After First/Last Applic.								28 10	35 17	7 7	14 14	21 3	28 10
Trt-Eval Interval								10 DA-B	17 DA-B	7 DA-A	14 DA-A	21 DA-A	10 DA-B
1	Nontreated							0 c	0 c	0 c	0 c	0 c	0 c
2	Regiment	80	WP	0.5	OZ/A	MPOST	A	99 a	99 a	71 b	93 b	98 a	98 a
	Permit	75	WG	0.5	OZ/A	MPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	MPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	MPOST	A						
3	Stam M-4	4	SL	4	QT/A	MPOST	A	99 a	99 a	97 a	98 a	98 a	99 a
	Facet	75	DF	0.5	LB/A	MPOST	A						
	Permit	75	WG	0.5	OZ/A	MPOST	A						
4	Regiment	80	WP	0.6	OZ/A	7 D PTFLD	B	92 b	89 b			35 b	91 b
	Permit	75	WG	0.6	OZ/A	7 D PTFLD	B						
	Kinetic HV		SF	4.8	FL OZ/A	7 D PTFLD	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	7 D PTFLD	B						
5	Stam M-4	4	SL	4	QT/A	MPOST	A	99 a	98 a	98 a	98 a	98 a	99 a
	Facet	75	DF	0.5	LB/A	MPOST	A						
	Permit	75	WG	0.5	OZ/A	7 D PTFLD	B						
	Agri-Dex		L	32	FL OZ/A	7 D PTFLD	B						
Standard Deviation								4.0	3.8	2.3	1.4	2.6	3.2
CV								5.21	4.89	3.44	2.0	3.92	4.11

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	21	22	23	24	25	26
Pest Code								IPOLA	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG
Rating Date								10-Jul-06	12-Jun-06	19-Jun-06	26-Jun-06	3-Jul-06	10-Jul-06
Rating Data Type								Control	Control	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%
Days After First/Last Applic.								35 17	7 7	14 14	21 3	28 10	35 17
Trt-Eval Interval								17 DA-B	7 DA-A	14 DA-A	21 DA-A	10 DA-B	17 DA-B
1	Nontreated							0 c	0 c	0 c	0 d	0 c	0 d
2	Regiment	80	WP	0.5	OZ/A	MPOST	A	99 a	74 b	88 a	90 a	91 a	90 a
	Permit	75	WG	0.5	OZ/A	MPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	MPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	MPOST	A						
3	Stam M-4	4	SL	4	QT/A	MPOST	A	99 a	80 a	79 ab	79 b	75 b	71 c
	Facet	75	DF	0.5	LB/A	MPOST	A						
	Permit	75	WG	0.5	OZ/A	MPOST	A						
4	Regiment	80	WP	0.6	OZ/A	7 D PTFLD	B	92 b			15 c	78 b	89 a
	Permit	75	WG	0.6	OZ/A	7 D PTFLD	B						
	Kinetic HV		SF	4.8	FL OZ/A	7 D PTFLD	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	7 D PTFLD	B						
5	Stam M-4	4	SL	4	QT/A	MPOST	A	97 ab	80 a	76 b	79 b	80 b	78 b
	Facet	75	DF	0.5	LB/A	MPOST	A						
	Permit	75	WG	0.5	OZ/A	7 D PTFLD	B						
	Agri-Dex		L	32	FL OZ/A	7 D PTFLD	B						
Standard Deviation								3.3	2.9	6.2	4.0	4.2	2.4
CV								4.24	4.99	10.19	7.63	6.46	3.62

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Regiment and Permit Combinations

Trial ID: 06-WS-11
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	ECHCG 31-Jul-06 Control % 56 38 38 DA-B 27	PANRA 19-Jun-06 Control % 14 14 14 DA-A 28	PANRA 26-Jun-06 Control % 21 3 21 DA-A 29	PANRA 3-Jul-06 Control % 28 10 10 DA-B 30	PANRA 10-Jul-06 Control % 35 17 17 DA-B 31	PANRA 31-Jul-06 Control % 56 38 38 DA-B 32
1	Nontreated							0 c	0 b	0 d	0 d	0 d	0 c
2	Regiment	80	WP	0.5	OZ/A	MPOST	A	85 a	69 a	79 b	80 b	78 bc	66 b
	Permit	75	WG	0.5	OZ/A	MPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	MPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	MPOST	A						
3	Stam M-4	4	SL	4	QT/A	MPOST	A	60 b	75 a	94 a	94 a	93 a	90 a
	Facet	75	DF	0.5	LB/A	MPOST	A						
	Permit	75	WG	0.5	OZ/A	MPOST	A						
4	Regiment	80	WP	0.6	OZ/A	7 D PTFLD	B	84 a		10 c	69 c	68 c	69 b
	Permit	75	WG	0.6	OZ/A	7 D PTFLD	B						
	Kinetic HV		SF	4.8	FL OZ/A	7 D PTFLD	B						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	7 D PTFLD	B						
5	Stam M-4	4	SL	4	QT/A	MPOST	A	66 b	74 a	93 a	94 a	84 ab	83 a
	Facet	75	DF	0.5	LB/A	MPOST	A						
	Permit	75	WG	0.5	OZ/A	7 D PTFLD	B						
	Agri-Dex		L	32	FL OZ/A	7 D PTFLD	B						
Standard Deviation								6.5	6.7	5.9	4.0	7.1	7.2
CV								11.02	12.36	10.66	5.96	11.01	11.66

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	LEFPA 3-Jul-06 Control % 28 10 10 DA-B 33	LEFPA 10-Jul-06 Control % 35 17 17 DA-B 34	LEFPA 31-Jul-06 Control % 56 38 38 DA-B 35	13-Sep-06 Yield bu/A 38
1	Nontreated							0 b	0 d	0 c	91 b
2	Regiment	80	WP	0.5	OZ/A	MPOST	A	76 a	30 c	31 b	169 a
	Permit	75	WG	0.5	OZ/A	MPOST	A				
	Kinetic HV		SF	4.8	FL OZ/A	MPOST	A				
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	MPOST	A				
3	Stam M-4	4	SL	4	QT/A	MPOST	A	85 a	85 a	74 a	172 a
	Facet	75	DF	0.5	LB/A	MPOST	A				
	Permit	75	WG	0.5	OZ/A	MPOST	A				
4	Regiment	80	WP	0.6	OZ/A	7 D PTFLD	B	75 a	54 b	51 ab	168 a
	Permit	75	WG	0.6	OZ/A	7 D PTFLD	B				
	Kinetic HV		SF	4.8	FL OZ/A	7 D PTFLD	B				
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	7 D PTFLD	B				
5	Stam M-4	4	SL	4	QT/A	MPOST	A	80 a	66 ab	63 a	166 a
	Facet	75	DF	0.5	LB/A	MPOST	A				
	Permit	75	WG	0.5	OZ/A	7 D PTFLD	B				
	Agri-Dex		L	32	FL OZ/A	7 D PTFLD	B				
Standard Deviation								6.7	13.3	16.9	9.2
CV								10.65	28.4	38.57	6.03

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
V-10142 Application Rate and Timing

Trial ID: 06-WS-12
Location: DREC

Objective:
To determine the most effective rate and timing for V-10142 applications targeting broadleaf weed species.

Conclusions:
V-10142 is an ALS-inhibiting herbicide, which is the same mode of action as Regiment and Permit. Nutsedge species are a primary target of V-10142. However, no nutsedge was present in the test area in 2006. Also, the compound has little activity against annual grasses. In this experiment, V-10142 was applied at five application rates to 1- to 2-leaf rice (EPOST), 3- to 4-leaf rice (MPOST), or at 7 days after flood (7 d PTFLD). Weeds evaluated included hemp sesbania (SEBEX), ivyleaf morningglory (IPOHE), and pitted morningglory (IPOLA). Rice injury was minimal throughout the experiment. At 23 days after MPOST application, SEBEX, IPOHE, and IPOLA were all controlled at least 91% by V-10142 applied EPOST or MPOST. No differences in control were detected among the five application rates of V-10142 applied EPOST or MPOST. Control of these species was slightly lower when V-10142 application was delayed until 7 d PTFLD compared with EPOST or MPOST applications. Differences in rice yields were not attributed to V-10142 application rate or timing.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: Cocodrie **Description:** Conventional variety
BBCH Scale: BRIC **Planting Date:** 15-May-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 72 F
Soil Moisture: Adequate **Emergence Date:** 23-May-06
Harvest Date: 20-Sep-06 **Harvest Equipment:** Mitsubishi VM-13
Harvested Width, Unit: 2.66 FT **Harvested Length, Unit:** 15 FT
% Standard Moisture: 12.0

Pest Description

Pest 1 Type: W **Code:** SEBEX *Sesbania exaltata*
Common Name: Hemp sesbania

Pest 2 Type: W **Code:** IPOHE *Ipomoea hederacea*
Common Name: Ivyleaf morningglory

Pest 3 Type: W **Code:** IPOLA *Ipomoea lacunosa*
Common Name: Pitted morningglory

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Complete Block
% Slope: 0.1 **Soil Drainage:** G Good

Trial Initiation Comments:
Cyperus spp. were not present in the test area.

Mississippi State University Delta Research and Extension Center
V-10142 Application Rate and Timing

Trial ID: 06-WS-12
Location: DREC

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	10-Jun-06	Clincher SF	2.38	EC	15	FL OZ/A
2.	14-Jun-06	Urea (46:0:0)	46	GR	325	LB/A
3.	15-Jun-06	Karate Z	2.08	CS	2	FL OZ/A
4.	27-Jun-06	Clincher SF	2.38	EC	15	FL OZ/A
5.	25-Jul-06	Ultra Blazer	2	L	1	PT/A

Comment: Ultra Blazer application on 25-Jul-06 was made to control hemp sesbania so that the experiment could be harvested.

Field Prep./Maintenance:

Tillage - Triple-K, 3-May-06 and 15-May-06.

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 0.5 **Unit:** MI

	Date	Type
1.	22-May-06	Flush
2.	6-Jun-06	Flush
3.	15-Jun-06	Flood
4.	5-Sep-06	Drain

Mississippi State University Delta Research and Extension Center
V-10142 Application Rate and Timing

Trial ID: 06-WS-12
Location: DREC

Application Description

	A	B	C
Application Date:	31-May-06	7-Jun-06	23-Jun-06
Time of Day:	9:00 am	8:30 am	9:00 am
Application Method:	Broadcast	Broadcast	Broadcast
Application Timing:	EPOST	MPOST	7d PTFLD
Application Placement:	Foliar	Foliar	Foliar
Applied By:	JAB	JAB	JAB, LCV
Air Temperature, Unit:	76 F	77 F	86 F
% Relative Humidity:	70	58	68
Wind Velocity, Unit:	3 MPH	1 MPH	4 MPH
Wind Direction:	W	SW	W
Dew Presence (Y/N):	N	Y	Y
Soil Temperature, Unit:	79 F	78 F	
Soil Moisture:	Excessive	Excessive	Flood
% Cloud Cover:	95	0	0

Crop Stage At Each Application

	A	B	C
Crop 1 Code:	ORYSA	ORYSA	ORYSA
Stage Majority, Percent:	2 leaf	4 leaf	3 tiller
Stage Minimum, Percent:	2 leaf	3 leaf	3 tiller
Stage Maximum, Percent:	3 leaf	4 leaf	4 tiller
Height, Unit:	5 IN	7 IN	12 IN
Height Minimum, Maximum:	4 6	6 8	11 13

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	SEBEX W	SEBEX W	SEBEX W
Stage Majority, Percent:	2 leaf	4 leaf	9 leaf
Stage Minimum, Percent:	1 leaf	3 leaf	8 leaf
Stage Maximum, Percent:	2 leaf	4 leaf	9 leaf
Height, Unit:	1 IN	4 IN	14 IN
Height Minimum, Maximum:	1 2	3 4	11 18
Density, Unit:	8 FT2	8 FT2	6 FT2
Pest 2 Code, Disc., Scale:	IPOHE W	IPOHE W	IPOHE W
Stage Majority, Percent:	1 leaf	3 leaf	7 leaf
Stage Minimum, Percent:	1 leaf	2 leaf	7 leaf
Stage Maximum, Percent:	1 leaf	3 leaf	9 leaf
Height, Unit:	1 IN	3 IN	6 IN
Height Minimum, Maximum:	1 1	2 3	5 7
Density, Unit:	4 FT2	4 FT2	4 FT2
Pest 3 Code, Disc., Scale:	IPOLA W	IPOLA W	IPOLA W
Stage Majority, Percent:	1 leaf	3 leaf	7 leaf
Stage Minimum, Percent:	1 leaf	2 leaf	7 leaf
Stage Maximum, Percent:	1 leaf	3 leaf	8 leaf
Height, Unit:	1 IN	3 IN	6 IN
Height Minimum, Maximum:	1 1	2 3	5 7
Density, Unit:	3 FT2	3 FT2	3 FT2

Mississippi State University Delta Research and Extension Center
V-10142 Application Rate and Timing

Trial ID: 06-WS-12
Location: DREC

Application Equipment

	A	B	C
Appl. Equipment:	CO2 backpack	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	24 PSI	29 PSI	24 PSI
Nozzle Type:	DG	XR	TT
Nozzle Size:	11002VS	11001VS	11001VS
Nozzle Spacing, Unit:	20 IN	16 IN	16 IN
Boom Length, Unit:	60 IN	64 IN	64 IN
Boom Height, Unit:	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	2 MPH	2 MPH
Carrier:	Water	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

Date	By	Notes
13-Jun-06	JAB	Weed populations were low in the first five drill passes in the experiment. Plots within this area were rated based on the weed pressure in these plots.
30-Jun-06	JAB	Plots 107 and 108 were infested with horse purslane at planting and competition damaged rice.
30-Jun-06	JAB	Morningglory species were killed by floodwater.
19-Jul-06	JAB	Plots 103, 114, 203, 214, 303, 314, 403, and 414 were shorter than other plots. An error occurred during the urea application.

Mississippi State University Delta Research and Extension Center
V-10142 Application Rate and Timing

Trial ID: 06-WS-12
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
Pest Code												SEBEX	SEBEX
Rating Date								7-Jun-06	13-Jun-06	20-Jun-06	30-Jun-06	7-Jun-06	13-Jun-06
Rating Data Type								Rice Injury	Rice Injury	Rice Injury	Rice Injury	Control	Control
Rating Unit								%	%	%	%	%	%
Days After First/Last Applic.								7 0	13 6	20 13	30 7	7 0	13 6
Trt-Eval Interval								7 DA-A	13 DA-A	13 DA-B	23 DA-B	7 DA-A	13 DA-A
								1	2	3	4	7	8
1	Nontreated							0 a	0 a	0 b	0 c	0 c	0 g
2	V-10142	75	DG	2.13	OZ/A	EPOST	A	0 a	0 a	0 b	0 c	86 b	93 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A						
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D						
	Agri-Dex		L	32	FL OZ/A	ASN	D						
3	V-10142	75	DG	3.2	OZ/A	EPOST	A	0 a	2 a	1 b	1 c	88 ab	90 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A						
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D						
	Agri-Dex		L	32	FL OZ/A	ASN	D						
4	V-10142	75	DG	4.27	OZ/A	EPOST	A	0 a	2 a	2 b	1 c	89 ab	92 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A						
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D						
	Agri-Dex		L	32	FL OZ/A	ASN	D						
5	V-10142	75	DG	5.33	OZ/A	EPOST	A	0 a	2 a	2 b	2 b	93 a	93 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A						
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D						
	Agri-Dex		L	32	FL OZ/A	ASN	D						
6	V-10142	75	DG	6.4	OZ/A	EPOST	A	0 a	2 a	4 a	4 a	90 ab	96 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A						
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D						
	Agri-Dex		L	32	FL OZ/A	ASN	D						
7	Regiment	80	WP	0.2	OZ/A	EPOST	A	1 a	1 a	0 b	0 c	93 a	95 a
	Dyne-A-Pak		AJ	28.8	FL OZ/A	EPOST	A						
8	Permit	75	WG	0.75	OZ/A	EPOST	A	1 a	0 a	0 b	0 c	89 ab	90 ab
	Induce		L	4.8	FL OZ/A	EPOST	A						
9	V-10142	75	DG	2.13	OZ/A	MPOST	B		0 a	0 b	0 c		70 def
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D						
	Agri-Dex		L	32	FL OZ/A	ASN	D						
10	V-10142	75	DG	3.2	OZ/A	MPOST	B		0 a	0 b	0 c		69 ef
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D						
	Agri-Dex		L	32	FL OZ/A	ASN	D						
11	V-10142	75	DG	4.27	OZ/A	MPOST	B		1 a	0 b	0 c		64 f
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D						
	Agri-Dex		L	32	FL OZ/A	ASN	D						
12	V-10142	75	DG	5.33	OZ/A	MPOST	B		2 a	1 b	1 c		79 cd
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D						
	Agri-Dex		L	32	FL OZ/A	ASN	D						
13	V-10142	75	DG	6.4	OZ/A	MPOST	B		1 a	1 b	1 c		78 cde
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D						
	Agri-Dex		L	32	FL OZ/A	ASN	D						
14	Regiment	80	WP	0.2	OZ/A	MPOST	B		1 a	1 b	0 c		81 bc
	Dyne-A-Pak		AJ	28.8	FL OZ/A	MPOST	B						
15	Permit	75	WG	0.75	OZ/A	MPOST	B		0 a	0 b	0 c		80 c
	Induce		L	4.8	FL OZ/A	MPOST	B						
16	V-10142	75	DG	2.13	OZ/A	7 d PTFLD	C				0 c		
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C						
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D						
	Agri-Dex		L	32	FL OZ/A	ASN	D						

Mississippi State University Delta Research and Extension Center
V-10142 Application Rate and Timing

Trial ID: 06-WS-12
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	7	8
	Pest Code											SEBEX	SEBEX
	Rating Date							7-Jun-06	13-Jun-06	20-Jun-06	30-Jun-06	7-Jun-06	13-Jun-06
	Rating Data Type							Rice Injury	Rice Injury	Rice Injury	Rice Injury	Control	Control
	Rating Unit							%	%	%	%	%	%
	Days After First/Last Applic.							7 0	13 6	20 13	30 7	7 0	13 6
	Trt-Eval Interval							7 DA-A	13 DA-A	13 DA-B	23 DA-B	7 DA-A	13 DA-A
17	V-10142	75	DG	3.2	OZ/A	7 d PTFLD	C				0 c		
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C						
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D						
	Agri-Dex		L	32	FL OZ/A	ASN	D						
18	V-10142	75	DG	4.27	OZ/A	7 d PTFLD	C				0 c		
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C						
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D						
	Agri-Dex		L	32	FL OZ/A	ASN	D						
19	V-10142	75	DG	5.33	OZ/A	7 d PTFLD	C				0 c		
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C						
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D						
	Agri-Dex		L	32	FL OZ/A	ASN	D						
20	V-10142	75	DG	6.4	OZ/A	7 d PTFLD	C				0 c		
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C						
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D						
	Agri-Dex		L	32	FL OZ/A	ASN	D						
21	Regiment	80	WP	0.2	OZ/A	7 d PTFLD	C				0 c		
	Dyne-A-Pak		AJ	28.8	FL OZ/A	7 d PTFLD	C						
22	Permit	75	WG	0.75	OZ/A	7 d PTFLD	C				0 c		
	Induce		L	4.8	FL OZ/A	7 d PTFLD	C						
	Standard Deviation							0.7	1.2	1.2	0.7	3.2	6.0
	CV							370.33	155.62	164.37	178.16	4.04	7.65

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
V-10142 Application Rate and Timing

Trial ID: 06-WS-12
Location: DREC

Pest Code								SEBEX	SEBEX	SEBEX	SEBEX	IPOHE	IPOHE	IPOHE
Rating Date								20-Jun-06	30-Jun-06	6-Jul-06	19-Jul-06	7-Jun-06	13-Jun-06	20-Jun-06
Rating Data Type								Control	Control	Control	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%	%
Days After First/Last Applic.								20 13	30 7	36 13	49 26	7 0	13 6	20 13
Trt-Eval Interval								13 DA-B	23 DA-B	13 DA-C	26 DA-C	7 DA-A	13 DA-A	13 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	9	10	11	12	13	14	15
1	Nontreated							0 g	0 f	0 h	0 f	0 c	0 e	0 d
2	V-10142	75	DG	2.13	OZ/A	EPOST	A	95 abc	94 ab	95 abc	96 abc	80 ab	86 b	97 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
3	V-10142	75	DG	3.2	OZ/A	EPOST	A	94 abc	98 ab	99 a	99 a	79 b	90 ab	98 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
4	V-10142	75	DG	4.27	OZ/A	EPOST	A	96 ab	98 ab	99 a	99 a	79 b	90 ab	97 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
5	V-10142	75	DG	5.33	OZ/A	EPOST	A	95 abc	99 a	99 a	99 a	85 ab	91 ab	98 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
6	V-10142	75	DG	6.4	OZ/A	EPOST	A	99 a	99 a	99 a	99 a	88 a	94 a	99 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
7	Regiment	80	WP	0.2	OZ/A	EPOST	A	93 abc	89 b	89 cd	87 d	83 ab	85 bc	94 a
	Dyne-A-Pak		AJ	28.8	FL OZ/A	EPOST	A							
8	Permit	75	WG	0.75	OZ/A	EPOST	A	93 abc	93 ab	91 a-d	91 a-d	83 ab	79 c	86 b
	Induce		L	4.8	FL OZ/A	EPOST	A							
9	V-10142	75	DG	2.13	OZ/A	MPOST	B	83 def	91 ab	94 abc	94 a-d		56 d	84 b
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
10	V-10142	75	DG	3.2	OZ/A	MPOST	B	78 f	96 ab	97 ab	97 abc		59 d	83 b
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
11	V-10142	75	DG	4.27	OZ/A	MPOST	B	79 ef	96 ab	99 a	99 a		56 d	84 b
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
12	V-10142	75	DG	5.33	OZ/A	MPOST	B	86 c-f	97 ab	97 ab	96 abc		63 d	84 b
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
13	V-10142	75	DG	6.4	OZ/A	MPOST	B	83 def	94 ab	96 abc	98 ab		61 d	76 c
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
14	Regiment	80	WP	0.2	OZ/A	MPOST	B	88 b-e	94 ab	95 abc	97 abc		64 d	81 b
	Dyne-A-Pak		AJ	28.8	FL OZ/A	MPOST	B							
15	Permit	75	WG	0.75	OZ/A	MPOST	B	89 bcd	92 ab	97 ab	97 abc		61 d	85 b
	Induce		L	4.8	FL OZ/A	MPOST	B							
16	V-10142	75	DG	2.13	OZ/A	7 d PTFLD	C		60 de	71 g	90 bcd			
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							

Mississippi State University Delta Research and Extension Center
V-10142 Application Rate and Timing

Trial ID: 06-WS-12
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	9	10	11	12	13	14	15
	Pest Code							SEBEX	SEBEX	SEBEX	SEBEX	IPOHE	IPOHE	IPOHE
	Rating Date							20-Jun-06	30-Jun-06	6-Jul-06	19-Jul-06	7-Jun-06	13-Jun-06	20-Jun-06
	Rating Data Type							Control	Control	Control	Control	Control	Control	Control
	Rating Unit							%	%	%	%	%	%	%
	Days After First/Last Applic.							20 13	30 7	36 13	49 26	7 0	13 6	20 13
	Trt-Eval Interval							13 DA-B	23 DA-B	13 DA-C	26 DA-C	7 DA-A	13 DA-A	13 DA-B
17	V-10142	75	DG	3.2	OZ/A	7 d PTFLD	C		58 de	73 fg	90 bcd			
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
18	V-10142	75	DG	4.27	OZ/A	7 d PTFLD	C		65 d	84 de	93 a-d			
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
19	V-10142	75	DG	5.33	OZ/A	7 d PTFLD	C		55 e	73 fg	78 e			
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
20	V-10142	75	DG	6.4	OZ/A	7 d PTFLD	C		63 de	79 ef	89 cd			
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
21	Regiment	80	WP	0.2	OZ/A	7 d PTFLD	C		78 c	90 bcd	95 a-d			
	Dyne-A-Pak		AJ	28.8	FL OZ/A	7 d PTFLD	C							
22	Permit	75	WG	0.75	OZ/A	7 d PTFLD	C		75 c	90 bcd	93 a-d			
	Induce		L	4.8	FL OZ/A	7 d PTFLD	C							
	Standard Deviation							5.8	5.9	4.9	4.9	4.8	4.7	3.3
	CV							6.92	7.24	5.64	5.45	6.66	6.82	3.99

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
V-10142 Application Rate and Timing

Trial ID: 06-WS-12
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	16	17	18	19	20	21	22
	Pest Code							IPOHE	IPOHE	IPOHE	IPOLA	IPOLA	IPOLA	IPOLA
	Rating Date							30-Jun-06	6-Jul-06	19-Jul-06	13-Jun-06	20-Jun-06	30-Jun-06	6-Jul-06
	Rating Data Type							Control	Control	Control	Control	Control	Control	Control
	Rating Unit							%	%	%	%	%	%	%
	Days After First/Last Applic.							30 7	36 13	49 26	13 6	20 13	30 7	36 13
	Trt-Eval Interval							23 DA-B	13 DA-C	26 DA-C	13 DA-A	13 DA-B	23 DA-B	13 DA-C
1	Nontreated							0 d	0 f	0 e	0 e	0 c	0 f	0 h
2	V-10142	75	DG	2.13	OZ/A	EPOST	A	97 a	97 ab	97 ab	85 b	97 a	97 ab	98 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
3	V-10142	75	DG	3.2	OZ/A	EPOST	A	99 a	99 a	99 a	90 ab	96 a	99 a	99 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
4	V-10142	75	DG	4.27	OZ/A	EPOST	A	98 a	98 ab	98 ab	91 ab	99 a	99 a	99 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
5	V-10142	75	DG	5.33	OZ/A	EPOST	A	99 a	99 a	99 a	93 ab	98 a	99 a	99 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
6	V-10142	75	DG	6.4	OZ/A	EPOST	A	99 a	99 a	99 a	94 a	97 a	99 a	99 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
7	Regiment	80	WP	0.2	OZ/A	EPOST	A	95 ab	94 bc	91 cd	88 ab	94 a	95 ab	95 bc
	Dyne-A-Pak		AJ	28.8	FL OZ/A	EPOST	A							
8	Permit	75	WG	0.75	OZ/A	EPOST	A	95 ab	95 abc	95 abc	75 c	84 b	95 ab	95 bc
	Induce		L	4.8	FL OZ/A	EPOST	A							
9	V-10142	75	DG	2.13	OZ/A	MPOST	B	95 ab	95 abc	95 abc	59 d	84 b	96 ab	99 a
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
10	V-10142	75	DG	3.2	OZ/A	MPOST	B	98 a	99 a	99 a	58 d	80 b	98 a	99 a
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
11	V-10142	75	DG	4.27	OZ/A	MPOST	B	98 a	99 a	99 a	56 d	84 b	98 a	99 a
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
12	V-10142	75	DG	5.33	OZ/A	MPOST	B	98 a	98 ab	98 ab	63 d	80 b	97 ab	97 ab
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
13	V-10142	75	DG	6.4	OZ/A	MPOST	B	93 ab	97 ab	98 ab	59 d	81 b	97 ab	97 ab
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
14	Regiment	80	WP	0.2	OZ/A	MPOST	B	96 a	98 ab	98 ab	59 d	81 b	96 ab	97 ab
	Dyne-A-Pak		AJ	28.8	FL OZ/A	MPOST	B							
15	Permit	75	WG	0.75	OZ/A	MPOST	B	96 a	99 a	99 a	61 d	83 b	96 ab	95 bc
	Induce		L	4.8	FL OZ/A	MPOST	B							
16	V-10142	75	DG	2.13	OZ/A	7 d PTFLD	C	56 c	83 e	90 cd			59 e	84 g
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							

Mississippi State University Delta Research and Extension Center
V-10142 Application Rate and Timing

Trial ID: 06-WS-12
Location: DREC

Pest Code								IPOHE	IPOHE	IPOHE	IPOLA	IPOLA	IPOLA	IPOLA
Rating Date								30-Jun-06	6-Jul-06	19-Jul-06	13-Jun-06	20-Jun-06	30-Jun-06	6-Jul-06
Rating Data Type								Control	Control	Control	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%	%
Days After First/Last Applic.								30 7	36 13	49 26	13 6	20 13	30 7	36 13
Trt-Eval Interval								23 DA-B	13 DA-C	26 DA-C	13 DA-A	13 DA-B	23 DA-B	13 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	16	17	18	19	20	21	22
17	V-10142	75	DG	3.2	OZ/A	7 d PTFLD	C	68 c	85 e	93 bcd			64 de	88 ef
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
18	V-10142	75	DG	4.27	OZ/A	7 d PTFLD	C	68 c	90 cd	93 bcd			68 de	90 de
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
19	V-10142	75	DG	5.33	OZ/A	7 d PTFLD	C	56 c	86 de	88 d			59 e	86 fg
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
20	V-10142	75	DG	6.4	OZ/A	7 d PTFLD	C	68 c	90 cd	92 bcd			69 de	90 de
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D							
	Agri-Dex		L	32	FL OZ/A	ASN	D							
21	Regiment	80	WP	0.2	OZ/A	7 d PTFLD	C	84 b	91 c	91 cd			84 bc	93 cd
	Dyne-A-Pak		AJ	28.8	FL OZ/A	7 d PTFLD	C							
22	Permit	75	WG	0.75	OZ/A	7 d PTFLD	C	65 c	85 e	88 d			75 cd	86 fg
	Induce		L	4.8	FL OZ/A	7 d PTFLD	C							
Standard Deviation								7.2	3.2	3.5	5.0	4.3	8.4	2.3
CV								8.76	3.53	3.86	7.22	5.25	10.1	2.57

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
V-10142 Application Rate and Timing

Trial ID: 06-WS-12
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	IPOLA 19-Jul-06 Control % 49 26 26 DA-C	50% Head DAE	20-Sep-06 Yield bu/A
	Pest Code									
	Rating Date									
	Rating Data Type									
	Rating Unit									
	Days After First/Last Applic.									
	Trt-Eval Interval									
								23	25	28
1	Nontreated							0 h	78 a	163 d
2	V-10142	75	DG	2.13	OZ/A	EPOST	A	98 ab	78 a	176 a-d
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A			
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D			
	Agri-Dex		L	32	FL OZ/A	ASN	D			
3	V-10142	75	DG	3.2	OZ/A	EPOST	A	99 a	78 a	177 a-d
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A			
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D			
	Agri-Dex		L	32	FL OZ/A	ASN	D			
4	V-10142	75	DG	4.27	OZ/A	EPOST	A	99 a	78 a	179 abc
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A			
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D			
	Agri-Dex		L	32	FL OZ/A	ASN	D			
5	V-10142	75	DG	5.33	OZ/A	EPOST	A	99 a	77 a	188 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A			
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D			
	Agri-Dex		L	32	FL OZ/A	ASN	D			
6	V-10142	75	DG	6.4	OZ/A	EPOST	A	99 a	77 a	186 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A			
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D			
	Agri-Dex		L	32	FL OZ/A	ASN	D			
7	Regiment	80	WP	0.2	OZ/A	EPOST	A	90 de	77 a	167 cd
	Dyne-A-Pak		AJ	28.8	FL OZ/A	EPOST	A			
8	Permit	75	WG	0.75	OZ/A	EPOST	A	95 a-d	77 a	171 bcd
	Induce		L	4.8	FL OZ/A	EPOST	A			
9	V-10142	75	DG	2.13	OZ/A	MPOST	B	99 a	77 a	174 a-d
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B			
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D			
	Agri-Dex		L	32	FL OZ/A	ASN	D			
10	V-10142	75	DG	3.2	OZ/A	MPOST	B	99 a	77 a	181 abc
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B			
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D			
	Agri-Dex		L	32	FL OZ/A	ASN	D			
11	V-10142	75	DG	4.27	OZ/A	MPOST	B	99 a	76 a	180 abc
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B			
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D			
	Agri-Dex		L	32	FL OZ/A	ASN	D			
12	V-10142	75	DG	5.33	OZ/A	MPOST	B	96 a-d	78 a	185 ab
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B			
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D			
	Agri-Dex		L	32	FL OZ/A	ASN	D			
13	V-10142	75	DG	6.4	OZ/A	MPOST	B	98 ab	77 a	189 a
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B			
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D			
	Agri-Dex		L	32	FL OZ/A	ASN	D			
14	Regiment	80	WP	0.2	OZ/A	MPOST	B	97 abc	78 a	175 a-d
	Dyne-A-Pak		AJ	28.8	FL OZ/A	MPOST	B			
15	Permit	75	WG	0.75	OZ/A	MPOST	B	95 a-d	78 a	174 a-d
	Induce		L	4.8	FL OZ/A	MPOST	B			
16	V-10142	75	DG	2.13	OZ/A	7 d PTFLD	C	84 f	78 a	185 ab
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C			
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D			
	Agri-Dex		L	32	FL OZ/A	ASN	D			

Mississippi State University Delta Research and Extension Center
V-10142 Application Rate and Timing

Trial ID: 06-WS-12
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	23	25	28
	Pest Code							IPOLA		
	Rating Date							19-Jul-06		20-Sep-06
	Rating Data Type							Control	50% Head	Yield
	Rating Unit							%	DAE	bu/A
	Days After First/Last Applic.							49 26		
	Trt-Eval Interval							26 DA-C		
17	V-10142	75	DG	3.2	OZ/A	7 d PTFLD	C	91 cd	78 a	180 abc
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C			
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D			
	Agri-Dex		L	32	FL OZ/A	ASN	D			
18	V-10142	75	DG	4.27	OZ/A	7 d PTFLD	C	91 cd	78 a	183 ab
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C			
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D			
	Agri-Dex		L	32	FL OZ/A	ASN	D			
19	V-10142	75	DG	5.33	OZ/A	7 d PTFLD	C	85 ef	78 a	163 d
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C			
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D			
	Agri-Dex		L	32	FL OZ/A	ASN	D			
20	V-10142	75	DG	6.4	OZ/A	7 d PTFLD	C	92 bcd	77 a	177 a-d
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C			
	Clincher SF	2.38	EC	15	FL OZ/A	ASN	D			
	Agri-Dex		L	32	FL OZ/A	ASN	D			
21	Regiment	80	WP	0.2	OZ/A	7 d PTFLD	C	91 cd	78 a	184 ab
	Dyne-A-Pak		AJ	28.8	FL OZ/A	7 d PTFLD	C			
22	Permit	75	WG	0.75	OZ/A	7 d PTFLD	C	76 g	77 a	178 a-d
	Induce		L	4.8	FL OZ/A	7 d PTFLD	C			
	Standard Deviation							3.9	1.0	9.5
	CV							4.39	1.27	5.32

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Early Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-13
Location: DREC

Objective:
To determine the efficacy of IR5878 as a component of early postemergence weed control programs in Mississippi.

Conclusions:
IR5878 is an ALS-inhibiting herbicide, which is the same mode of action as Regiment and Permit. Although nutsedge is one of the primary targets of IR5878, no nutsedge was present in the test area in 2006. In this experiment, IR5878 was applied to 1-leaf rice (VEPOST) or to 1- to 2-leaf rice (EPOST) alone and in combination with other herbicides. Weeds evaluated included hemp sesbania (SEBEX), ivyleaf morningglory (IPOHE), pitted morningglory (IPOLA), barnyardgrass (ECHCG), and browntop millet (PANRA). Rice injury was minimal following all treatments in this experiment. Very few weeds had emerged at the time of VEPOST applications, so VEPOST treatments provided poor control in 2006. EPOST applications of IR5878 performed well on SEBEX (>90% at 20 days following application). SEBEX control reached 90% more rapidly following application of a tank mixture of IR5878 and Permit at 0.33 OZ/A compared with IR5878 alone. The flood greatly reduced the morningglory populations. IR5878 provides a good option for SEBEX control in a Clearfield production system or in a Clincher SF/Ricestar HT system.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: CL 131 **Description:** Clearfield variety
BBCH Scale: BRIC **Planting Date:** 15-May-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 72 F
Soil Moisture: Adequate **Emergence Date:** 23-May-06
Harvest Date: 21-Sep-06 **Harvest Equipment:** Mitsubishi VM-13
Harvested Width, Unit: 2.66 FT **Harvested Length, Unit:** 15 FT
% Standard Moisture: 12.0

Pest Description

Pest 1 Type: W **Code:** SEBEX *Sesbania exaltata*
Common Name: Hemp sesbania

Pest 2 Type: W **Code:** IPOHE *Ipomoea hederacea*
Common Name: Ivyleaf morningglory

Pest 3 Type: W **Code:** IPOLA *Ipomoea lacunosa*
Common Name: Pitted morningglory

Pest 4 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Common barnyardgrass

Pest 5 Type: W **Code:** PANRA *Brachiaria ramosa*
Common Name: Browntop millet

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Complete Block
% Slope: 0.1 **Soil Drainage:** G Good

Mississippi State University Delta Research and Extension Center
Early Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-13
Location: DREC

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	14-Jun-06	Urea (46:0:0)	46	GR	325	LB/A
2.	15-Jun-06	Karate Z	2.08	CS	2	FL OZ/A
3.	25-Jul-06	Ultra Blazer	2	L	1	PT/A

Comment: Ultra Blazer application on 25-Jul-06 was made to control hemp sesbania so that the experiment could be harvested.

Field Prep./Maintenance:
Tillage - Triple-K, 3-May-06 and 15-May-06.

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 0.5 **Unit:** MI

	Date	Type
1.	22-May-06	Flush
2.	6-Jun-06	Flush
3.	15-Jun-06	Flood
4.	5-Sep-06	Drain

Application Description

	A	B	C	D	E
Application Date:	17-May-06	25-May-06	31-May-06	7-Jun-06	19-Jun-06
Time of Day:	7:00 am	6:45 am	7:00 am	8:30 am	9:00 am
Application Method:	Broadcast	Broadcast	Broadcast	Broadcast	Broadcast
Application Timing:	PRE	VEPOST	EPOST	MPOST	PTFLD
Application Placement:	Soil	Foliar	Foliar	Foliar	Foliar
Applied By:	JAB	JAB	JAB	JAB	JAB,LCV
Air Temperature, Unit:	64 F	74 F	79 F	77 F	94 F
% Relative Humidity:	56	86	86	58	55
Wind Velocity, Unit:	2 MPH	2 MPH	2 MPH	1 MPH	0 MPH
Wind Direction:	N	NW	W	W	
Dew Presence (Y/N):	N	Y	Y	Y	Y
Soil Temperature, Unit:	67 F	76	77 F	76 F	
Soil Moisture:	Adequate	Excessive	Excessive	Excessive	Flood
% Cloud Cover:	50	10	90	0	20

Mississippi State University Delta Research and Extension Center
Early Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-13
Location: DREC

Crop Stage At Each Application

	A	B	C	D	E
Crop 1 Code:	ORYSA	ORYSA	ORYSA	ORYSA	ORYSA
Stage Majority, Percent:		1 leaf	2 leaf	4 leaf	2 tiller
Stage Minimum, Percent:		1 leaf	2 leaf	3 leaf	2 tiller
Stage Maximum, Percent:		1 Leaf	3 leaf	4 leaf	3 tiller
Height, Unit:		2 IN	5 IN	7 IN	10 IN
Height Minimum, Maximum:		1 2	4 6	6 8	8 11

Pest Stage At Each Application

	A	B	C	D	E
Pest 1 Code, Disc., Scale:	SEBEX W	SEBEX W	SEBEX W	SEBEX W	SEBEX W
Stage Majority, Percent:		Cot	2 leaf	3 leaf	6 leaf
Stage Minimum, Percent:		Cot	1 leaf	3 leaf	6 leaf
Stage Maximum, Percent:		Cot	2 leaf	3 leaf	7 leaf
Height, Unit:		0.5 IN	2 IN	3 IN	9 IN
Height Minimum, Maximum:		0.5 1	2 2	2 4	8 10
Density, Unit:		0.5 FT2	5 FT2	5 FT2	4 FT2
Pest 2 Code, Disc., Scale:	IPOHE W	IPOHE W	IPOHE W	IPOHE W	IPOHE W
Stage Majority, Percent:		Cot	1 leaf	2 leaf	4 leaf
Stage Minimum, Percent:		Cot	1 leaf	2 leaf	3 leaf
Stage Maximum, Percent:		Cot	2 leaf	3 leaf	4 leaf
Height, Unit:		0.5 IN	2 IN	4 IN	6 IN
Height Minimum, Maximum:		0.5 1	1 2	2 4	5 6
Density, Unit:		0.5 FT2	3 FT2	4 FT2	4 FT2
Pest 3 Code, Disc., Scale:	IPOLA W	IPOLA W	IPOLA W	IPOLA W	IPOLA W
Stage Majority, Percent:		Cot	1 leaf	2 leaf	4 leaf
Stage Minimum, Percent:		Cot	1 leaf	2 leaf	3 leaf
Stage Maximum, Percent:		Cot	2 leaf	3 leaf	4 leaf
Height, Unit:		0.5 IN	2 IN	4 IN	6 IN
Height Minimum, Maximum:		0.5 1	1 2	2 4	5 6
Density, Unit:		0.5 FT2	3 FT2	4 FT2	4 FT2
Pest 4 Code, Disc., Scale:	ECHCG W	ECHCG W	ECHCG W	ECHCG W	ECHCG W
Stage Majority, Percent:			1 leaf	3 leaf	3 till
Stage Minimum, Percent:			1 leaf	3 leaf	3 leaf
Stage Maximum, Percent:			2 leaf	4 leaf	5 till
Height, Unit:			1 IN	3 IN	8 IN
Height Minimum, Maximum:			1 2	2 3	4 12
Density, Unit:			7 FT2	7 FT2	4 FT2
Pest 5 Code, Disc., Scale:	PANRA W	PANRA W	PANRA W	PANRA W	PANRA W
Stage Majority, Percent:			1 leaf	2 leaf	4 leaf
Stage Minimum, Percent:			1 leaf	2 leaf	1 till
Stage Maximum, Percent:			2 leaf	3 leaf	3 leaf
Height, Unit:			1 IN	3 IN	4 IN
Height Minimum, Maximum:			1 2	2 3	3 4
Density, Unit:			4 FT2	4 FT2	4 FT2

Mississippi State University Delta Research and Extension Center
Early Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-13
Location: DREC

Application Equipment

	A	B	C	D	E
Appl. Equipment:	CO2 backpack	CO2 backpack	CO2 backpack	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	36 PSI	40 PSI	34 PSI	24 PSI	24 PSI
Nozzle Type:	AI	AI	AI	XR	XR
Nozzle Size:	110015VS	110015VS	110015VS	11001VS	11001VS
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	16 IN	16 IN
Boom Length, Unit:	60 IN	60 IN	60 IN	64 IN	64 IN
Boom Height, Unit:	18 IN	18 IN	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	2 MPH	2 MPH
Carrier:	Water	Water	Water	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA

Date	**By**	**Notes**
25-May-06	JAB	Very few weeds emerged at VEPOST application. Application was made based on rice growth stage.
19-Jun-06	JAB	Morningglory species were killed by floodwater.

Mississippi State University Delta Research and Extension Center
Early Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-13
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	6	7	8
	Pest Code										SEBEX	SEBEX	SEBEX
	Rating Date							1-Jun-06	7-Jun-06	13-Jun-06	1-Jun-06	7-Jun-06	13-Jun-06
	Rating Data Type							Rice Injury	Rice Injury	Rice Injury	Control	Control	Control
	Rating Unit							%	%	%	%	%	%
	Days After First/Last Applic.							15 1	21 0	27 6	15 1	21 0	27 6
	Trt-Eval Interval							7 DA-B	7 DA-C	13 DA-C	7 DA-B	7 DA-C	13 DA-C
1	Nontreated							0 a	0 c	0 c	0 e	0 i	0 e
2	Command	3	ME	12.8	FL OZ/A	PRE	A	0 a	0 c	0 c	0 e	81 cde	90 ab
	IR5878	50	WG	2.1	OZ/A	EPOST	C						
	Induce		L	4.8	FL OZ/A	EPOST	C						
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E						
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E						
3	Command	3	ME	12.8	FL OZ/A	VEPOST	B	0 a	0 c	0 c	59 b	55 g	58 d
	IR5878	50	WG	2.1	OZ/A	VEPOST	B						
	Induce		L	4.8	FL OZ/A	VEPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E						
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E						
4	Command	3	ME	12.8	FL OZ/A	PRE	A	0 a	5 a	3 a	0 e	97 a	96 ab
	IR5878	50	WG	2.1	OZ/A	EPOST	C						
	Super Wham	4	SC	3	QT/A	EPOST	C						
	Induce		L	4.8	FL OZ/A	EPOST	C						
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E						
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E						
5	Facet	75	DF	8	OZ/A	PRE	A	0 a	0 c	0 c	88 a	89 a-d	95 ab
	IR5878	50	WG	2.1	OZ/A	EPOST	C						
	Agri-Dex		L	19.2	FL OZ/A	EPOST	C						
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E						
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E						
6	IR5878	50	WG	2.1	OZ/A	EPOST	C		0 c	0 c		76 de	88 b
	Facet	75	DF	10.7	OZ/A	EPOST	C						
	Agri-Dex		L	19.2	FL OZ/A	EPOST	C						
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E						
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E						
7	Newpath	2	AS	6	FL OZ/A	PRE	A	0 a	0 c	0 c	8 e	83 b-e	90 ab
	IR5878	50	WG	2.1	OZ/A	EPOST	C						
	Induce		L	4.8	FL OZ/A	EPOST	C						
	Newpath	2	AS	4	FL OZ/A	MPOST	D						
	Agri-Dex		L	19.2	FL OZ/A	MPOST	D						
8	IR5878	50	WG	2.1	OZ/A	VEPOST	B	0 a	0 c	0 c	39 c	34 h	64 cd
	Newpath	2	AS	6	FL OZ/A	VEPOST	B						
	Induce		L	4.8	FL OZ/A	VEPOST	B						
	Newpath	2	AS	4	FL OZ/A	MPOST	D						
	Agri-Dex		L	19.2	FL OZ/A	MPOST	D						
9	IR5878	50	WG	2.1	OZ/A	EPOST	C		5 a	3 a		96 ab	95 ab
	Super Wham	4	SC	4	QT/A	EPOST	C						
	Induce		L	4.8	FL OZ/A	EPOST	C						
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E						
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E						
10	Command	3	ME	12.8	FL OZ/A	PRE	A	0 a	0 c	0 c	0 e	86 a-d	94 ab
	Permit	75	WG	0.33	OZ/A	EPOST	C						
	IR5878	50	WG	2.1	OZ/A	EPOST	C						
	Induce		L	4.8	FL OZ/A	EPOST	C						
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E						
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E						
11	Command	3	ME	12.8	FL OZ/A	PRE	A	0 a	0 c	0 c	0 e	70 ef	90 ab
	Permit	75	WG	1	OZ/A	EPOST	C						
	Induce		L	4.8	FL OZ/A	EPOST	C						
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E						
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E						

Mississippi State University Delta Research and Extension Center
Early Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-13
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	6	7	8
	Pest Code										SEBEX	SEBEX	SEBEX
	Rating Date							1-Jun-06	7-Jun-06	13-Jun-06	1-Jun-06	7-Jun-06	13-Jun-06
	Rating Data Type							Rice Injury	Rice Injury	Rice Injury	Control	Control	Control
	Rating Unit							%	%	%	%	%	%
	Days After First/Last Applic.							15 1	21 0	27 6	15 1	21 0	27 6
	Trt-Eval Interval							7 DA-B	7 DA-C	13 DA-C	7 DA-B	7 DA-C	13 DA-C
12	Command	3	ME	12.8	FL OZ/A	VEPOST	B	0 a	0 c	0 c	25 d	40 h	65 cd
	Permit	75	WG	1	OZ/A	VEPOST	B						
	Induce		L	4.8	FL OZ/A	VEPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E						
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E						
13	Permit	75	WG	1	OZ/A	EPOST	C		4 a	4 a		96 ab	98 a
	Super Wham	4	SC	3	QT/A	EPOST	C						
	Agri-Dex		L	19.2	FL OZ/A	EPOST	C						
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E						
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E						
14	Newpath	2	AS	6	FL OZ/A	VEPOST	B	0 a	0 c	0 c	23 d	60 fg	68 c
	Permit	75	WG	1	OZ/A	VEPOST	B						
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	B						
	Newpath	2	AS	4	FL OZ/A	MPOST	D						
	Agri-Dex		L	19.2	FL OZ/A	MPOST	D						
15	Grasp	2	SC	2	FL OZ/A	EPOST	C		2 b	2 b		90 abc	95 ab
	IR5878	50	WG	2.1	OZ/A	EPOST	C						
	Induce		L	19.2	FL OZ/A	EPOST	C						
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E						
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E						
16	IR5878	50	WG	2.1	OZ/A	EPOST	C		1 bc	4 a		84 a-d	90 ab
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	C						
	Dyne-A-Pak		AJ	19.2	FL OZ/A	EPOST	C						
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E						
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E						
17	IR5878	50	WG	2.1	OZ/A	EPOST	C		0 c	0 c		86 a-d	88 b
	Clincher SF	2.38	EC	15	FL OZ/A	EPOST	C						
	Dyne-A-Pak		AJ	19.2	FL OZ/A	EPOST	C						
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E						
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E						
18	Command	3	ME	12.8	FL OZ/A	PRE	A	0 a	2 b	3 a	0 e	96 ab	97 ab
	IR5878	50	WG	2.1	OZ/A	EPOST	C						
	Aim	2	EC	1	FL OZ/A	EPOST	C						
	Induce		L	2.88	FL OZ/A	EPOST	C						
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E						
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E						
	Standard Deviation							0.0	1.1	0.5	7.1	8.3	5.9
	CV							0.0	107.33	46.58	35.44	11.37	7.26

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Early Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-13
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SEBEX 20-Jun-06 Control % 34 1 20 DA-C	SEBEX 3-Jul-06 Control % 47 14 14 DA-E	IPOHE 1-Jun-06 Control % 15 1 7 DA-B	IPOHE 7-Jun-06 Control % 21 0 7 DA-C	IPOHE 13-Jun-06 Control % 27 6 13 DA-C	IPOHE 20-Jun-06 Control % 34 1 20 DA-C	IPOHE 3-Jul-06 Control % 47 14 14 DA-E
								9	10	11	12	13	14	15
1	Nontreated							0 d	0 d	0 f	0 f	0 g	0 g	0 d
2	Command	3	ME	12.8	FL OZ/A	PRE	A	91 a	92 a	0 f	81 c	91 abc	95 abc	99 a
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Induce		L	4.8	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
3	Command	3	ME	12.8	FL OZ/A	VEPOST	B	59 c	43 c	45 c	35 e	64 f	88 e	91 b
	IR5878	50	WG	2.1	OZ/A	VEPOST	B							
	Induce		L	4.8	FL OZ/A	VEPOST	B							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
4	Command	3	ME	12.8	FL OZ/A	PRE	A	89 a	86 a	0 f	96 ab	96 ab	93 a-d	96 a
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Super Wham	4	SC	3	QT/A	EPOST	C							
	Induce		L	4.8	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
5	Facet	75	DF	8	OZ/A	PRE	A	95 a	97 a	93 a	94 abc	97 ab	98 a	99 a
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
6	IR5878	50	WG	2.1	OZ/A	EPOST	C	94 a	98 a		89 abc	96 ab	98 ab	99 a
	Facet	75	DF	10.7	OZ/A	EPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
7	Newpath	2	AS	6	FL OZ/A	PRE	A	93 a	94 a	55 b	85 abc	89 bc	95 abc	98 a
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Induce		L	4.8	FL OZ/A	EPOST	C							
	Newpath	2	AS	4	FL OZ/A	MPOST	D							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	D							
8	IR5878	50	WG	2.1	OZ/A	VEPOST	B	70 b	60 b	58 b	60 d	71 ef	83 f	85 c
	Newpath	2	AS	6	FL OZ/A	VEPOST	B							
	Induce		L	4.8	FL OZ/A	VEPOST	B							
	Newpath	2	AS	4	FL OZ/A	MPOST	D							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	D							
9	IR5878	50	WG	2.1	OZ/A	EPOST	C	97 a	98 a		97 ab	97 ab	98 a	99 a
	Super Wham	4	SC	4	QT/A	EPOST	C							
	Induce		L	4.8	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
10	Command	3	ME	12.8	FL OZ/A	PRE	A	95 a	98 a	0 f	81 c	89 bc	94 a-d	99 a
	Permit	75	WG	0.33	OZ/A	EPOST	C							
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Induce		L	4.8	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
11	Command	3	ME	12.8	FL OZ/A	PRE	A	93 a	96 a	0 f	61 d	79 de	93 a-d	99 a
	Permit	75	WG	1	OZ/A	EPOST	C							
	Induce		L	4.8	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							

Mississippi State University Delta Research and Extension Center
Early Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-13
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SEBEX 20-Jun-06 Control % 34 1 20 DA-C 9	SEBEX 3-Jul-06 Control % 47 14 14 DA-E 10	IPOHE 1-Jun-06 Control % 15 1 7 DA-B 11	IPOHE 7-Jun-06 Control % 21 0 7 DA-C 12	IPOHE 13-Jun-06 Control % 27 6 13 DA-C 13	IPOHE 20-Jun-06 Control % 34 1 20 DA-C 14	IPOHE 3-Jul-06 Control % 47 14 14 DA-E 15
12	Command	3	ME	12.8	FL OZ/A	VEPOST	B	66 bc	59 b	23 e	38 e	64 f	89 de	90 b
	Permit	75	WG	1	OZ/A	VEPOST	B							
	Induce		L	4.8	FL OZ/A	VEPOST	B							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
13	Permit	75	WG	1	OZ/A	EPOST	C	98 a	99 a		97 ab	98 a	97 ab	97 a
	Super Wham	4	SC	3	QT/A	EPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
14	Newpath	2	AS	6	FL OZ/A	VEPOST	B	74 b	68 b	33 d	58 d	74 e	89 de	90 b
	Permit	75	WG	1	OZ/A	VEPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	B							
	Newpath	2	AS	4	FL OZ/A	MPOST	D							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	D							
15	Grasp	2	SC	2	FL OZ/A	EPOST	C	95 a	99 a		86 abc	94 ab	94 a-d	99 a
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Induce		L	19.2	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
16	IR5878	50	WG	2.1	OZ/A	EPOST	C	91 a	95 a		81 c	89 bc	93 bcd	99 a
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	C							
	Dyne-A-Pak		AJ	19.2	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
17	IR5878	50	WG	2.1	OZ/A	EPOST	C	90 a	90 a		84 bc	85 cd	91 cde	97 a
	Clincher SF	2.38	EC	15	FL OZ/A	EPOST	C							
	Dyne-A-Pak		AJ	19.2	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
18	Command	3	ME	12.8	FL OZ/A	PRE	A	96 a	95 a	0 f	98 a	98 a	98 a	99 a
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Aim	2	EC	1	FL OZ/A	EPOST	C							
	Induce		L	2.88	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
Standard Deviation								6.0	9.4	4.1	8.5	5.4	3.1	3.1
CV								7.27	11.53	16.12	11.58	6.64	3.55	3.42

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Early Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-13
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	IPOLA 1-Jun-06 Control % 15 1 7 DA-B	IPOLA 13-Jun-06 Control % 27 6 13 DA-C	IPOLA 20-Jun-06 Control % 34 1 20 DA-C	IPOLA 3-Jul-06 Control % 47 14 14 DA-E	ECHCG 1-Jun-06 Control % 15 1 7 DA-B	ECHCG 7-Jun-06 Control % 21 0 7 DA-C	ECHCG 13-Jun-06 Control % 27 6 13 DA-C
								16	17	18	19	20	21	22
1	Nontreated							0 e	0 f	0 f	0 c	0 c	0 f	0 i
2	Command	3	ME	12.8	FL OZ/A	PRE	A	0 e	86 cd	94 abc	99 a	93 ab	80 cde	74 gh
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Induce		L	4.8	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
3	Command	3	ME	12.8	FL OZ/A	VEPOST	B	50 c	68 e	88 de	91 b	91 ab	88 bcd	84 a-d
	IR5878	50	WG	2.1	OZ/A	VEPOST	B							
	Induce		L	4.8	FL OZ/A	VEPOST	B							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
4	Command	3	ME	12.8	FL OZ/A	PRE	A	0 e	93 abc	95 ab	97 a	90 ab	94 ab	88 abc
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Super Wham	4	SC	3	QT/A	EPOST	C							
	Induce		L	4.8	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
5	Facet	75	DF	8	OZ/A	PRE	A	91 a	95 abc	98 a	99 a	94 a	86 b-e	76 efg
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
6	IR5878	50	WG	2.1	OZ/A	EPOST	C		96 ab	98 a	99 a		84 cde	76 efg
	Facet	75	DF	10.7	OZ/A	EPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
7	Newpath	2	AS	6	FL OZ/A	PRE	A	56 bc	86 cd	95 ab	98 a	90 ab	86 b-e	90 a
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Induce		L	4.8	FL OZ/A	EPOST	C							
	Newpath	2	AS	4	FL OZ/A	MPOST	D							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	D							
8	IR5878	50	WG	2.1	OZ/A	VEPOST	B	64 b	73 e	85 e	90 b	89 b	90 abc	90 a
	Newpath	2	AS	6	FL OZ/A	VEPOST	B							
	Induce		L	4.8	FL OZ/A	VEPOST	B							
	Newpath	2	AS	4	FL OZ/A	MPOST	D							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	D							
9	IR5878	50	WG	2.1	OZ/A	EPOST	C		91 a-d	97 a	99 a		97 a	83 b-e
	Super Wham	4	SC	4	QT/A	EPOST	C							
	Induce		L	4.8	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
10	Command	3	ME	12.8	FL OZ/A	PRE	A	0 e	91 a-d	94 abc	99 a	89 b	76 e	73 gh
	Permit	75	WG	0.33	OZ/A	EPOST	C							
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Induce		L	4.8	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
11	Command	3	ME	12.8	FL OZ/A	PRE	A	0 e	83 d	95 ab	99 a	90 ab	76 e	69 h
	Permit	75	WG	1	OZ/A	EPOST	C							
	Induce		L	4.8	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							

Mississippi State University Delta Research and Extension Center
Early Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-13
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	IPOLA 1-Jun-06 Control % 15 1 7 DA-B 16	IPOLA 13-Jun-06 Control % 27 6 13 DA-C 17	IPOLA 20-Jun-06 Control % 34 1 20 DA-C 18	IPOLA 3-Jul-06 Control % 47 14 14 DA-E 19	ECHCG 1-Jun-06 Control % 15 1 7 DA-B 20	ECHCG 7-Jun-06 Control % 21 0 7 DA-C 21	ECHCG 13-Jun-06 Control % 27 6 13 DA-C 22
12	Command	3	ME	12.8	FL OZ/A	VEPOST	B	28 d	66 e	91 bcd	86 b	90 ab	83 cde	75 fgh
	Permit	75	WG	1	OZ/A	VEPOST	B							
	Induce		L	4.8	FL OZ/A	VEPOST	B							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
13	Permit	75	WG	1	OZ/A	EPOST	C		94 abc	98 a	99 a		98 a	89 ab
	Super Wham	4	SC	3	QT/A	EPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
14	Newpath	2	AS	6	FL OZ/A	VEPOST	B	33 d	74 e	89 cde	90 b	90 ab	90 abc	90 a
	Permit	75	WG	1	OZ/A	VEPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	B							
	Newpath	2	AS	4	FL OZ/A	MPOST	D							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	D							
15	Grasp	2	SC	2	FL OZ/A	EPOST	C		91 a-d	91 bcd	99 a		86 b-e	81 c-f
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Induce		L	19.2	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
16	IR5878	50	WG	2.1	OZ/A	EPOST	C		88 bcd	94 abc	99 a		78 de	78 d-g
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	C							
	Dyne-A-Pak		AJ	19.2	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
17	IR5878	50	WG	2.1	OZ/A	EPOST	C		86 cd	91 bcd	97 a		80 cde	76 efg
	Clincher SF	2.38	EC	15	FL OZ/A	EPOST	C							
	Dyne-A-Pak		AJ	19.2	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
18	Command	3	ME	12.8	FL OZ/A	PRE	A	0 e	97 a	98 a	99 a	92 ab	85 b-e	76 efg
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Aim	2	EC	1	FL OZ/A	EPOST	C							
	Induce		L	2.88	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
Standard Deviation								6.2	5.4	3.1	3.4	2.6	6.0	4.3
CV								23.11	6.73	3.55	3.77	3.18	7.4	5.61

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Early Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-13
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
Pest Code								ECHCG	ECHCG	PANRA	PANRA	PANRA	PANRA	PANRA
Rating Date								20-Jun-06	3-Jul-06	1-Jun-06	7-Jun-06	13-Jun-06	20-Jun-06	3-Jul-06
Rating Data Type								Control	Control	Control	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%	%
Days After First/Last Applic.								34 1	47 14	15 1	21 0	27 6	34 1	47 14
Trt-Eval Interval								20 DA-C	14 DA-E	7 DA-B	7 DA-C	13 DA-C	20 DA-C	14 DA-E
								23	24	25	26	27	28	29
1	Nontreated							0 h	0 c	0 b	0 h	0 j	0 h	0 c
2	Command	3	ME	12.8	FL OZ/A	PRE	A	74 efg	97 ab	90 a	83 d-g	78 ghi	79 fg	99 a
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Induce		L	4.8	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
3	Command	3	ME	12.8	FL OZ/A	VEPOST	B	81 bcd	93 ab	91 a	88 cde	85 c-f	85 b-e	97 ab
	IR5878	50	WG	2.1	OZ/A	VEPOST	B							
	Induce		L	4.8	FL OZ/A	VEPOST	B							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
4	Command	3	ME	12.8	FL OZ/A	PRE	A	85 bc	96 ab	88 a	98 a	88 a-d	88 bc	99 a
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Super Wham	4	SC	3	QT/A	EPOST	C							
	Induce		L	4.8	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
5	Facet	75	DF	8	OZ/A	PRE	A	74 efg	97 ab	91 a	90 bc	76 hi	76 g	99 a
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
6	IR5878	50	WG	2.1	OZ/A	EPOST	C	75 d-g	99 a		86 c-f	76 hi	80 efg	99 a
	Facet	75	DF	10.7	OZ/A	EPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
7	Newpath	2	AS	6	FL OZ/A	PRE	A	96 a	99 a	89 a	86 c-f	93 a	94 a	99 a
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Induce		L	4.8	FL OZ/A	EPOST	C							
	Newpath	2	AS	4	FL OZ/A	MPOST	D							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	D							
8	IR5878	50	WG	2.1	OZ/A	VEPOST	B	95 a	94 ab	90 a	89 cd	90 abc	95 a	98 ab
	Newpath	2	AS	6	FL OZ/A	VEPOST	B							
	Induce		L	4.8	FL OZ/A	VEPOST	B							
	Newpath	2	AS	4	FL OZ/A	MPOST	D							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	D							
9	IR5878	50	WG	2.1	OZ/A	EPOST	C	78 def	97 ab		97 ab	86 b-e	88 bc	99 a
	Super Wham	4	SC	4	QT/A	EPOST	C							
	Induce		L	4.8	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
10	Command	3	ME	12.8	FL OZ/A	PRE	A	71 fg	91 ab	89 a	80 fg	76 hi	76 g	99 a
	Permit	75	WG	0.33	OZ/A	EPOST	C							
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Induce		L	4.8	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
11	Command	3	ME	12.8	FL OZ/A	PRE	A	69 g	92 ab	88 a	81 efg	74 i	76 g	98 ab
	Permit	75	WG	1	OZ/A	EPOST	C							
	Induce		L	4.8	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							

Mississippi State University Delta Research and Extension Center
Early Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-13
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	ECHCG 20-Jun-06 Control % 34 1 20 DA-C 23	ECHCG 3-Jul-06 Control % 47 14 14 DA-E 24	PANRA 1-Jun-06 Control % 15 1 7 DA-B 25	PANRA 7-Jun-06 Control % 21 0 7 DA-C 26	PANRA 13-Jun-06 Control % 27 6 13 DA-C 27	PANRA 20-Jun-06 Control % 34 1 20 DA-C 28	PANRA 3-Jul-06 Control % 47 14 14 DA-E 29
12	Command	3	ME	12.8	FL OZ/A	VEPOST	B	75 d-g	93 ab	89 a	85 c-g	79 ghi	83 c-f	97 ab
	Permit	75	WG	1	OZ/A	VEPOST	B							
	Induce		L	4.8	FL OZ/A	VEPOST	B							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
13	Permit	75	WG	1	OZ/A	EPOST	C	81 bcd	97 ab		98 a	91 ab	89 b	99 a
	Super Wham	4	SC	3	QT/A	EPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
14	Newpath	2	AS	6	FL OZ/A	VEPOST	B	88 b	94 ab	91 a	90 bc	90 abc	89 b	96 b
	Permit	75	WG	1	OZ/A	VEPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	B							
	Newpath	2	AS	4	FL OZ/A	MPOST	D							
	Agri-Dex		L	19.2	FL OZ/A	MPOST	D							
15	Grasp	2	SC	2	FL OZ/A	EPOST	C	80 cde	96 ab		88 cde	83 d-g	81 d-g	99 a
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Induce		L	19.2	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
16	IR5878	50	WG	2.1	OZ/A	EPOST	C	74 efg	92 ab		79 g	81 e-h	88 bc	98 ab
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	C							
	Dyne-A-Pak		AJ	19.2	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
17	IR5878	50	WG	2.1	OZ/A	EPOST	C	74 efg	89 b		84 c-g	81 e-h	84 b-f	98 ab
	Clincher SF	2.38	EC	15	FL OZ/A	EPOST	C							
	Dyne-A-Pak		AJ	19.2	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
18	Command	3	ME	12.8	FL OZ/A	PRE	A	75 d-g	91 ab	91 a	87 c-f	80 fgh	86 bcd	96 b
	IR5878	50	WG	2.1	OZ/A	EPOST	C							
	Aim	2	EC	1	FL OZ/A	EPOST	C							
	Induce		L	2.88	FL OZ/A	EPOST	C							
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E							
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E							
Standard Deviation								4.1	5.7	2.7	4.4	3.7	3.3	1.7
CV								5.55	6.44	3.23	5.35	4.74	4.19	1.8

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Early Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-13
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
	Pest Code							
	Rating Date							21-Sep-06
	Rating Data Type							Yield
	Rating Unit							bu/A
	Days After First/Last Applic.							
	Trt-Eval Interval							
								32
1	Nontreated							71 d
2	Command	3	ME	12.8	FL OZ/A	PRE	A	141 ab
	IR5878	50	WG	2.1	OZ/A	EPOST	C	
	Induce		L	4.8	FL OZ/A	EPOST	C	
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E	
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E	
3	Command	3	ME	12.8	FL OZ/A	VEPOST	B	126 c
	IR5878	50	WG	2.1	OZ/A	VEPOST	B	
	Induce		L	4.8	FL OZ/A	VEPOST	B	
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E	
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E	
4	Command	3	ME	12.8	FL OZ/A	PRE	A	142 ab
	IR5878	50	WG	2.1	OZ/A	EPOST	C	
	Super Wham	4	SC	3	QT/A	EPOST	C	
	Induce		L	4.8	FL OZ/A	EPOST	C	
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E	
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E	
5	Facet	75	DF	8	OZ/A	PRE	A	139 abc
	IR5878	50	WG	2.1	OZ/A	EPOST	C	
	Agri-Dex		L	19.2	FL OZ/A	EPOST	C	
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E	
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E	
6	IR5878	50	WG	2.1	OZ/A	EPOST	C	140 ab
	Facet	75	DF	10.7	OZ/A	EPOST	C	
	Agri-Dex		L	19.2	FL OZ/A	EPOST	C	
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E	
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E	
7	Newpath	2	AS	6	FL OZ/A	PRE	A	147 a
	IR5878	50	WG	2.1	OZ/A	EPOST	C	
	Induce		L	4.8	FL OZ/A	EPOST	C	
	Newpath	2	AS	4	FL OZ/A	MPOST	D	
	Agri-Dex		L	19.2	FL OZ/A	MPOST	D	
8	IR5878	50	WG	2.1	OZ/A	VEPOST	B	133 abc
	Newpath	2	AS	6	FL OZ/A	VEPOST	B	
	Induce		L	4.8	FL OZ/A	VEPOST	B	
	Newpath	2	AS	4	FL OZ/A	MPOST	D	
	Agri-Dex		L	19.2	FL OZ/A	MPOST	D	
9	IR5878	50	WG	2.1	OZ/A	EPOST	C	141 ab
	Super Wham	4	SC	4	QT/A	EPOST	C	
	Induce		L	4.8	FL OZ/A	EPOST	C	
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E	
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E	
10	Command	3	ME	12.8	FL OZ/A	PRE	A	134 abc
	Permit	75	WG	0.33	OZ/A	EPOST	C	
	IR5878	50	WG	2.1	OZ/A	EPOST	C	
	Induce		L	4.8	FL OZ/A	EPOST	C	
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E	
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E	
11	Command	3	ME	12.8	FL OZ/A	PRE	A	142 ab
	Permit	75	WG	1	OZ/A	EPOST	C	
	Induce		L	4.8	FL OZ/A	EPOST	C	
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E	
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E	

Mississippi State University Delta Research and Extension Center
Early Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-13
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	32
	Pest Code							
	Rating Date							21-Sep-06
	Rating Data Type							Yield
	Rating Unit							bu/A
	Days After First/Last Applic.							
	Trt-Eval Interval							
12	Command	3	ME	12.8	FL OZ/A	VEPOST	B	130 bc
	Permit	75	WG	1	OZ/A	VEPOST	B	
	Induce		L	4.8	FL OZ/A	VEPOST	B	
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E	
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E	
13	Permit	75	WG	1	OZ/A	EPOST	C	138 abc
	Super Wham	4	SC	3	QT/A	EPOST	C	
	Agri-Dex		L	19.2	FL OZ/A	EPOST	C	
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E	
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E	
14	Newpath	2	AS	6	FL OZ/A	VEPOST	B	137 abc
	Permit	75	WG	1	OZ/A	VEPOST	B	
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	B	
	Newpath	2	AS	4	FL OZ/A	MPOST	D	
	Agri-Dex		L	19.2	FL OZ/A	MPOST	D	
15	Grasp	2	SC	2	FL OZ/A	EPOST	C	144 ab
	IR5878	50	WG	2.1	OZ/A	EPOST	C	
	Induce		L	19.2	FL OZ/A	EPOST	C	
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E	
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E	
16	IR5878	50	WG	2.1	OZ/A	EPOST	C	146 a
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	C	
	Dyne-A-Pak		AJ	19.2	FL OZ/A	EPOST	C	
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E	
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E	
17	IR5878	50	WG	2.1	OZ/A	EPOST	C	131 bc
	Clincher SF	2.38	EC	15	FL OZ/A	EPOST	C	
	Dyne-A-Pak		AJ	19.2	FL OZ/A	EPOST	C	
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E	
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E	
18	Command	3	ME	12.8	FL OZ/A	PRE	A	131 bc
	IR5878	50	WG	2.1	OZ/A	EPOST	C	
	Aim	2	EC	1	FL OZ/A	EPOST	C	
	Induce		L	2.88	FL OZ/A	EPOST	C	
	Clincher SF	2.38	EC	15	FL OZ/A	PR or PTFLD	E	
	Agri-Dex		L	19.2	FL OZ/A	PR or PTFLD	E	
	Standard Deviation							8.3
	CV							6.21

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Rice Tolerance to Postflood Grasp Applications

Trial ID: 06-WS-14
Location: DREC

Objective:
To determine weed control efficacy and rice tolerance to salvage herbicide applications made after flooding.

Conclusions:
This experiment was conducted to determine weed control efficacy and rice tolerance to salvage herbicides applied at three postflood application timings. Weeds evaluated included barnyardgrass (ECHCG) and browntop millet (PANRA). Rice injury was minimal following all herbicide applications. All applications of Clincher SF and Grasp controlled ECHCG greater than 75 and 65%, respectively, 24 days following the 21 days after flooding (21 d PTFLD) application. At 31 days after the 21 d PTFLD application, Regiment at 0.6 OZ/A controlled ECHCG when applied 7 and 14 d PTFLD. However, when the Regiment rate was increased to 1.2 OZ/A, ECHCG control was equivalent from applications made at all three timings. Only Clincher SF controlled PANRA 24 days after the 21 d PTFLD application. Averaged across applications timings, rice yields were highest following applications of Grasp at 5 FL OZ/A and Regiment at 1.2 OZ/A. Averaged across herbicide treatments, rice yields were reduced when applications were delayed until 21 d PTFLD compared with applications 7 to 14 d PTFLD. Of interest, the two herbicide treatments that maximized yield in this experiment were Grasp and Regiment applied at twice the labeled application rates.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: Cocodrie **Description:** Conventional variety
BBCH Scale: BRIC **Planting Date:** 15-Jun-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 72 F
Soil Moisture: Adequate **Emergence Date:** 23-Jun-06
Harvest Date: 21-Sep-06 **Harvest Equipment:** Mitsubishi VM-13
Harvested Width, Unit: 2.66 FT **Harvested Length, Unit:** 15 FT
% Standard Moisture: 12.0

Pest Description

Pest 1 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Barnyardgrass

Pest 2 Type: W **Code:** PANRA *Brachiaria ramosa*
Common Name: Browntop millet

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Complete Block (Factorial treatment arrangement)
% Slope: 0.1 **Soil Drainage:** G Good

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	14-Jun-06	Urea (46:0:0)	46	GR	325	LB/A
2.	15-Jun-06	Karate Z	2.08	CS	2	FL OZ/A
3.	4-Aug-06	Quadris	2.08	SC	12	FL OZ/A

Field Prep./Maintenance:
Triple-K -- 3-Jun-06 and 15-Jun-06

Mississippi State University Delta Research and Extension Center
Rice Tolerance to Postflood Grasp Applications

Trial ID: 06-WS-14
Location: DREC

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 0.5 **Unit:** MI

	Date	Type
1.	22-May-06	Flush
2.	6-Jun-06	Flush
3.	15-Jun-06	Flood

Application Description

	A	B	C	D
Application Date:	16-May-06	23-Jun-06	30-Jun-06	7-Jul-06
Time of Day:	8:00 am	8:30 am	7:00 am	8:00 am
Application Method:	Broadcast	Broadcast	Broadcast	Broadcast
Application Timing:	PRE	7d PTFLD	14d PTFLD	21d PTFLD
Application Placement:	Soil	Foliar	Foliar	Foliar
Applied By:	JAB	JAB, LCV	JAB, LCV	JAB, LCV
Air Temperature, Unit:	70 F	86 F	78 F	70 F
% Relative Humidity:	54	68	64	50
Wind Velocity, Unit:	4 MPH	4 MPH	0 MPH	4 MPH
Wind Direction:	NW	W	-	NW
Dew Presence (Y/N):	N	Y	Y	Y
Soil Temperature, Unit:	68 F			
Soil Moisture:	Adequate	Flood	Flood	Flood
% Cloud Cover:	50	0	0	0

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code:	ORYSA	ORYSA	ORYSA	ORYSA
Stage Majority, Percent:		4 tiller	6 tiller	.5-in IE
Stage Minimum, Percent:		3 tiller	5 tiller	.5-in IE
Stage Maximum, Percent:		4 tiller	6 tiller	.5-in IE
Height, Unit:		12 IN	20 IN	26 IN
Height Minimum, Maximum:		11 13	18 22	24 27

Mississippi State University Delta Research and Extension Center
Rice Tolerance to Postflood Grasp Applications

Trial ID: 06-WS-14
Location: DREC

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Disc., Scale:	ECHCG W	ECHCG W	ECHCG W	ECHCG W
Stage Majority, Percent:		7 til	Head	Head
Stage Minimum, Percent:		5 til	Head	Head
Stage Maximum, Percent:		9 til	Head	Head
Height, Unit:		13 IN	16 IN	16 IN
Height Minimum, Maximum:		8 15	14 18	15 16
Density, Unit:		4 FT2	4 FT2	4 FT2
Pest 2 Code, Disc., Scale:	PANRA W	PANRA W	PANRA W	PANRA W
Stage Majority, Percent:		6 til	Head	Head
Stage Minimum, Percent:		6 til	Head	Head
Stage Maximum, Percent:		7 til	Head	Head
Height, Unit:		9 IN	12 IN	12 IN
Height Minimum, Maximum:		8 11	11 13	12 13
Density, Unit:		3 FT2	3 FT2	

Application Equipment

	A	B	C	D
Appl. Equipment:	CO2 backpack	CO2 backpack	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	38 PSI	24 PSI	24 PSI	24 PSI
Nozzle Type:	AI	TT	TT	TT
Nozzle Size:	110015VS	11001	11001	11001
Nozzle Spacing, Unit:	20 IN	16 IN	16 IN	16 IN
Boom Length, Unit:	60 IN	64 IN	64 IN	64 IN
Boom Height, Unit:	18 in	18 in	18 in	18 in
Ground Speed, Unit:	3 MPH	2 MPH	2 MPH	2 MPH
Carrier:	Water	Water	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA

Date	**By**	**Notes**
7-Aug-06	JAB	Browntop millet had dried down, so it was not evaluated.

Mississippi State University Delta Research and Extension Center
Rice Tolerance to Postflood Grasp Applications

Trial ID: 06-WS-14
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	30-Jun-06 Rice Injury % 45 0 7 DA-B 1	6-Jul-06 Rice Injury % 51 6 6 DA-C 2	14-Jul-06 Rice Injury % 59 7 7 DA-D 3	21-Jul-06 Rice Injury % 66 14 14 DA-D 4	6-Jul-06 Root Injury % 51 6 6 DA-C 7	ECHCG 30-Jun-06 Control % 45 0 7 DA-B 9
1	Command	3	ME	1	PT/A	PRE	A	0 b	0 c	0 b	0 c	3 bc	33 b
	Grasp	2	SC	2.5	FL OZ/A	7 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7 d PTFLD	B						
	7 d after flood												
2	Command	3	ME	1	PT/A	PRE	A		1 bc	1 b	0 c	1 bc	
	Grasp	2	SC	2.5	FL OZ/A	14 d PTFLD	C						
	Agri-Dex		L	48	FL OZ/A	14 d PTFLD	C						
	14 d after flood												
3	Command	3	ME	1	PT/A	PRE	A			1 b	0 c		
	Grasp	2	SC	2.5	FL OZ/A	21 d PTFLD	D						
	Agri-Dex		L	48	FL OZ/A	21 d PTFLD	D						
	21 d after flood												
4	Command	3	ME	1	PT/A	PRE	A	0 b	3 ab	1 b	2 bc	8 a	33 b
	Grasp	2	SC	5	FL OZ/A	7 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7 d PTFLD	B						
	7 d after flood												
5	Command	3	ME	1	PT/A	PRE	A		1 bc	2 b	2 bc	5 ab	
	Grasp	2	SC	5	FL OZ/A	14 d PTFLD	C						
	Agri-Dex		L	48	FL OZ/A	14 d PTFLD	C						
	14 d after flood												
6	Command	3	ME	1	PT/A	PRE	A			1 b	0 c		
	Grasp	2	SC	5	FL OZ/A	21 d PTFLD	D						
	Agri-Dex		L	48	FL OZ/A	21 d PTFLD	D						
	21 d after flood												
7	Command	3	ME	1	PT/A	PRE	A	0 b	0 c	0 b	0 c	0 c	48 ab
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	B						
	Agri-Dex		L	48	FL OZ/A	7 d PTFLD	B						
	7 d after flood												
8	Command	3	ME	1	PT/A	PRE	A		0 c	0 b	0 c	0 c	
	Clincher SF	2.38	EC	15	FL OZ/A	14 d PTFLD	C						
	Agri-Dex		L	48	FL OZ/A	14 d PTFLD	C						
	14 d after flood												
9	Command	3	ME	1	PT/A	PRE	A			0 b	0 c		
	Clincher SF	2.38	EC	15	FL OZ/A	21 d PTFLD	D						
	Agri-Dex		L	48	FL OZ/A	21 d PTFLD	D						
	21 d after flood												
10	Command	3	ME	1	PT/A	PRE	A	3 a	4 a	0 b	0 c	0 c	60 a
	Regiment	80	WP	0.6	OZ/A	7 d PTFLD	B						
	Dyne-A-Pak		AJ	16	FL OZ/A	7 d PTFLD	B						
	7 d after flood												
11	Command	3	ME	1	PT/A	PRE	A		3 ab	2 b	2 b	1 bc	
	Regiment	80	WP	0.6	OZ/A	14 d PTFLD	C						
	Dyne-A-Pak		AJ	16	FL OZ/A	14 d PTFLD	C						
	14 d after flood												
12	Command	3	ME	1	PT/A	PRE	A			1 b	1 bc		
	Regiment	80	WP	0.6	OZ/A	21 d PTFLD	D						
	Dyne-A-Pak		AJ	16	FL OZ/A	21 d PTFLD	D						
	21 d after flood												
13	Command	3	ME	1	PT/A	PRE	A	4 a	5 a	2 b	2 b	5 ab	68 a
	Regiment	80	WP	1.2	OZ/A	7 d PTFLD	B						
	Dyne-A-Pak		AJ	16	FL OZ/A	7 d PTFLD	B						
	7 d after flood												

Mississippi State University Delta Research and Extension Center
Rice Tolerance to Postflood Grasp Applications

Trial ID: 06-WS-14
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	7	9
Pest Code													ECHCG
Rating Date								30-Jun-06	6-Jul-06	14-Jul-06	21-Jul-06	6-Jul-06	30-Jun-06
Rating Data Type								Rice Injury	Rice Injury	Rice Injury	Rice Injury	Root Injury	Control
Rating Unit								%	%	%	%	%	%
Days After First/Last Applic.								45 0	51 6	59 7	66 14	51 6	45 0
Trt-Eval Interval								7 DA-B	6 DA-C	7 DA-D	14 DA-D	6 DA-C	7 DA-B
14	Command	3	ME	1	PT/A	PRE	A		3 ab	5 a	4 a	1 bc	
	Regiment	80	WP	1.2	OZ/A	14 d PTFLD	C						
	Dyne-A-Pak		AJ	16	FL OZ/A	14 d PTFLD	C						
	14 d after flood												
15	Command	3	ME	1	PT/A	PRE	A			1 b	2 b		
	Regiment	80	WP	1.2	OZ/A	21 d PTFLD	D						
	Dyne-A-Pak		AJ	16	FL OZ/A	21 d PTFLD	D						
	21 d after flood												
Standard Deviation								1.1	1.5	1.4	1.2	2.8	14.3
CV								83.91	78.51	120.83	121.76	121.76	29.83

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Rice Tolerance to Postflood Grasp Applications

Trial ID: 06-WS-14
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	ECHCG 6-Jul-06 Control % 51 6 6 DA-C 10	ECHCG 14-Jul-06 Control % 59 7 7 DA-D 11	ECHCG 21-Jul-06 Control % 66 14 14 DA-D 12	ECHCG 31-Jul-06 Control % 76 24 24 DA-D 13	ECHCG 7-Aug-06 Control % 83 31 31 DA-D 14	PANRA 6-Jul-06 Control % 51 6 6 DA-C 15	PANRA 14-Jul-06 Control % 59 7 7 DA-D 16
1	Command	3	ME	1	PT/A	PRE	A	75 a-d	56 de	55 efg	45 fg	63 cde	76 abc	30 cde
	Grasp	2	SC	2.5	FL OZ/A	7 d PTFLD	B							
	Agri-Dex		L	48	FL OZ/A	7 d PTFLD	B							
	7 d after flood													
2	Command	3	ME	1	PT/A	PRE	A	58 d	59 cde	69 b-e	58 efg	70 bcd	58 cde	45 bcd
	Grasp	2	SC	2.5	FL OZ/A	14 d PTFLD	C							
	Agri-Dex		L	48	FL OZ/A	14 d PTFLD	C							
	14 d after flood													
3	Command	3	ME	1	PT/A	PRE	A		31 gh	60 d-g	54 efg	59 def		
	Grasp	2	SC	2.5	FL OZ/A	21 d PTFLD	D							
	Agri-Dex		L	48	FL OZ/A	21 d PTFLD	D							
	21 d after flood													
4	Command	3	ME	1	PT/A	PRE	A	65 cd	50 ef	50 g	43 g	45 f	55 de	
	Grasp	2	SC	5	FL OZ/A	7 d PTFLD	B							
	Agri-Dex		L	48	FL OZ/A	7 d PTFLD	B							
	7 d after flood													
5	Command	3	ME	1	PT/A	PRE	A	60 d	61 b-e	71 bcd	64 cde	65 cd	50 e	33 cde
	Grasp	2	SC	5	FL OZ/A	14 d PTFLD	C							
	Agri-Dex		L	48	FL OZ/A	14 d PTFLD	C							
	14 d after flood													
6	Command	3	ME	1	PT/A	PRE	A		30 h	53 fg	59 def	58 def		20 e
	Grasp	2	SC	5	FL OZ/A	21 d PTFLD	D							
	Agri-Dex		L	48	FL OZ/A	21 d PTFLD	D							
	21 d after flood													
7	Command	3	ME	1	PT/A	PRE	A	85 ab	75 abc	73 bcd	68 cde	59 def	91 a	88 a
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	B							
	Agri-Dex		L	48	FL OZ/A	7 d PTFLD	B							
	7 d after flood													
8	Command	3	ME	1	PT/A	PRE	A	61 cd	78 ab	79 abc	74 bcd	65 cd	81 ab	90 a
	Clincher SF	2.38	EC	15	FL OZ/A	14 d PTFLD	C							
	Agri-Dex		L	48	FL OZ/A	14 d PTFLD	C							
	14 d after flood													
9	Command	3	ME	1	PT/A	PRE	A		48 efg	66 b-f	63 cde	55 def		48 bc
	Clincher SF	2.38	EC	15	FL OZ/A	21 d PTFLD	D							
	Agri-Dex		L	48	FL OZ/A	21 d PTFLD	D							
	21 d after flood													
10	Command	3	ME	1	PT/A	PRE	A	81 abc	86 a	88 a	85 ab	86 ab	81 ab	55 b
	Regiment	80	WP	0.6	OZ/A	7 d PTFLD	B							
	Dyne-A-Pak		AJ	16	FL OZ/A	7 d PTFLD	B							
	7 d after flood													
11	Command	3	ME	1	PT/A	PRE	A	63 cd	73 a-d	75 a-d	74 bcd	78 abc	65 b-e	35 cde
	Regiment	80	WP	0.6	OZ/A	14 d PTFLD	C							
	Dyne-A-Pak		AJ	16	FL OZ/A	14 d PTFLD	C							
	14 d after flood													
12	Command	3	ME	1	PT/A	PRE	A		38 fgh	65 c-f	58 efg	48 ef		30 cde
	Regiment	80	WP	0.6	OZ/A	21 d PTFLD	D							
	Dyne-A-Pak		AJ	16	FL OZ/A	21 d PTFLD	D							
	21 d after flood													
13	Command	3	ME	1	PT/A	PRE	A	88 a	90 a	89 a	93 a	90 a	88 a	56 b
	Regiment	80	WP	1.2	OZ/A	7 d PTFLD	B							
	Dyne-A-Pak		AJ	16	FL OZ/A	7 d PTFLD	B							
	7 d after flood													

Mississippi State University Delta Research and Extension Center
Rice Tolerance to Postflood Grasp Applications

Trial ID: 06-WS-14
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	ECHCG 6-Jul-06 Control % 51 6 6 DA-C 10	ECHCG 14-Jul-06 Control % 59 7 7 DA-D 11	ECHCG 21-Jul-06 Control % 66 14 14 DA-D 12	ECHCG 31-Jul-06 Control % 76 24 24 DA-D 13	ECHCG 7-Aug-06 Control % 83 31 31 DA-D 14	PANRA 6-Jul-06 Control % 51 6 6 DA-C 15	PANRA 14-Jul-06 Control % 59 7 7 DA-D 16
14	Command	3	ME	1	PT/A	PRE	A	66 bcd	79 ab	81 ab	84 ab	78 abc	74 a-d	38 cde
	Regiment	80	WP	1.2	OZ/A	14 d PTFLD	C							
	Dyne-A-Pak		AJ	16	FL OZ/A	14 d PTFLD	C							
	14 d after flood													
15	Command	3	ME	1	PT/A	PRE	A		56 de	73 bcd	75 bc	79 abc		28 de
	Regiment	80	WP	1.2	OZ/A	21 d PTFLD	D							
	Dyne-A-Pak		AJ	16	FL OZ/A	21 d PTFLD	D							
	21 d after flood													
Standard Deviation								12.4	11.3	9.2	9.5	10.3	12.5	10.9
CV								17.73	18.64	13.19	14.38	15.56	17.33	23.97

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Rice Tolerance to Postflood Grasp Applications

Trial ID: 06-WS-14
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	PANRA 21-Jul-06 Control % 66 14 14 DA-D 17	PANRA 31-Jul-06 Control % 76 24 24 DA-D 18	50% Head DAE 20	21-Sep-06 Yield bu/A 23
1	Command	3	ME	1	PT/A	PRE	A	23 ef	3 e	75 a	165 abc
	Grasp	2	SC	2.5	FL OZ/A	7 d PTFLD	B				
	Agri-Dex		L	48	FL OZ/A	7 d PTFLD	B				
	7 d after flood										
2	Command	3	ME	1	PT/A	PRE	A	23 ef	0 e	76 a	160 bcd
	Grasp	2	SC	2.5	FL OZ/A	14 d PTFLD	C				
	Agri-Dex		L	48	FL OZ/A	14 d PTFLD	C				
	14 d after flood										
3	Command	3	ME	1	PT/A	PRE	A	54 cd	0 e	77 a	164 abc
	Grasp	2	SC	2.5	FL OZ/A	21 d PTFLD	D				
	Agri-Dex		L	48	FL OZ/A	21 d PTFLD	D				
	21 d after flood										
4	Command	3	ME	1	PT/A	PRE	A	15 f	0 e	77 a	180 a
	Grasp	2	SC	5	FL OZ/A	7 d PTFLD	B				
	Agri-Dex		L	48	FL OZ/A	7 d PTFLD	B				
	7 d after flood										
5	Command	3	ME	1	PT/A	PRE	A	28 ef	0 e	77 a	177 ab
	Grasp	2	SC	5	FL OZ/A	14 d PTFLD	C				
	Agri-Dex		L	48	FL OZ/A	14 d PTFLD	C				
	14 d after flood										
6	Command	3	ME	1	PT/A	PRE	A	35 def	0 e	77 a	169 abc
	Grasp	2	SC	5	FL OZ/A	21 d PTFLD	D				
	Agri-Dex		L	48	FL OZ/A	21 d PTFLD	D				
	21 d after flood										
7	Command	3	ME	1	PT/A	PRE	A	88 a	90 a	77 a	175 ab
	Clincher SF	2.38	EC	15	FL OZ/A	7 d PTFLD	B				
	Agri-Dex		L	48	FL OZ/A	7 d PTFLD	B				
	7 d after flood										
8	Command	3	ME	1	PT/A	PRE	A	89 a	90 a	77 a	158 bcd
	Clincher SF	2.38	EC	15	FL OZ/A	14 d PTFLD	C				
	Agri-Dex		L	48	FL OZ/A	14 d PTFLD	C				
	14 d after flood										
9	Command	3	ME	1	PT/A	PRE	A	78 ab	83 a	76 a	142 d
	Clincher SF	2.38	EC	15	FL OZ/A	21 d PTFLD	D				
	Agri-Dex		L	48	FL OZ/A	21 d PTFLD	D				
	21 d after flood										
10	Command	3	ME	1	PT/A	PRE	A	53 cd	40 bc	76 a	171 abc
	Regiment	80	WP	0.6	OZ/A	7 d PTFLD	B				
	Dyne-A-Pak		AJ	16	FL OZ/A	7 d PTFLD	B				
	7 d after flood										
11	Command	3	ME	1	PT/A	PRE	A	33 def	33 cd	76 a	168 abc
	Regiment	80	WP	0.6	OZ/A	14 d PTFLD	C				
	Dyne-A-Pak		AJ	16	FL OZ/A	14 d PTFLD	C				
	14 d after flood										
12	Command	3	ME	1	PT/A	PRE	A	40 cde	20 d	76 a	154 cd
	Regiment	80	WP	0.6	OZ/A	21 d PTFLD	D				
	Dyne-A-Pak		AJ	16	FL OZ/A	21 d PTFLD	D				
	21 d after flood										
13	Command	3	ME	1	PT/A	PRE	A	55 cd	53 b	76 a	182 a
	Regiment	80	WP	1.2	OZ/A	7 d PTFLD	B				
	Dyne-A-Pak		AJ	16	FL OZ/A	7 d PTFLD	B				
	7 d after flood										

Mississippi State University Delta Research and Extension Center
Rice Tolerance to Postflood Grasp Applications

Trial ID: 06-WS-14
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	17	18	20	23
	Pest Code							PANRA	PANRA		
	Rating Date							21-Jul-06	31-Jul-06		21-Sep-06
	Rating Data Type							Control	Control	50% Head	Yield
	Rating Unit							%	%	DAE	bu/A
	Days After First/Last Applic.							66 14	76 24		
	Trt-Eval Interval							14 DA-D	24 DA-D		
14	Command	3	ME	1	PT/A	PRE	A	41 cde	44 bc	77 a	175 ab
	Regiment	80	WP	1.2	OZ/A	14 d PTFLD	C				
	Dyne-A-Pak		AJ	16	FL OZ/A	14 d PTFLD	C				
	14 d after flood										
15	Command	3	ME	1	PT/A	PRE	A	63 bc	40 bc	76 a	163 abc
	Regiment	80	WP	1.2	OZ/A	21 d PTFLD	D				
	Dyne-A-Pak		AJ	16	FL OZ/A	21 d PTFLD	D				
	21 d after flood										
	Standard Deviation							14.8	9.7	0.8	12.1
	CV							31.09	29.34	1.09	7.25

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Prowl Timing

Trial ID: 06-WS-15
Location: DREC

Objective:
To determine the rice response to Prowl sources (Prowl EC or Prowl H2O) applied at three application timings.

Conclusions:
Prowl EC or H2O are not labeled for application to rice until the seeds have imbibed water for germination. This experiment was conducted to determine the rice response of three varieties to applications of Prowl EC or Prowl H2O at three application timings (0, 3, or 7 days after planting). Varieties were chosen to represent different growth types of rice that possess different levels of seedling vigor. No differences in rice yield observed for each variety across treatments. Rice yields were not reduced by Prowl EC or H2O applications made prior to rice emergence.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: Various **Description:** Conventional variety
BBCH Scale: BRIC **Planting Date:** 4-May-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 71 F
Soil Moisture: Adequate **Emergence Date:** 13-May-06
Harvest Date: 12-Sep-06 **Harvest Equipment:** Mitsubishi VM-13
Harvested Width, Unit: 2.66 FT **Harvested Length, Unit:** 15 FT
% Standard Moisture: 12.0

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Complete Block (Factorial treatment arrangement)
% Slope: 0.1 **Soil Drainage:** G Good

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	4-May-06	Command	3	ME	1.33	PT/A
2.	4-May-06	Aim	2	EC	1.67	FL OZ/A
3.	4-May-06	Agri-Dex		L	1.67	% V/V
4.	1-Jun-06	SuperWham	4	EC	4	QT/A
5.	1-Jun-06	Facet	75	DF	0.67	LB/A
6.	1-Jun-06	Permit	75	DF	1	OZ/A
7.	1-Jun-06	Agri-Dex		L	1.67	% V/V
8.	1-Jun-06	Urea (46:0:0)	46	GR	325	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 0.5 **Unit:** MI

	Date	Type
1.	22-May-06	Flush
2.	3-Jun-06	Flood
3.	31-Aug-05	Drain

Mississippi State University Delta Research and Extension Center
Prowl Timing

Trial ID: 06-WS-15
Location: DREC

Application Description

	A	B	C
Application Date:	4-May-06	7-May-06	10-May-06
Time of Day:	7:00 pm	7:30 am	7:00 am
Application Method:	Broadcast	Broadcast	Broadcast
Application Timing:	0 DAP	3 DAP	7 DAP
Application Placement:	Soil	Soil	Soil
Applied By:	JAB	JAB	JAB
Air Temperature, Unit:	82 F	76 F	74 F
% Relative Humidity:	69	57	72
Wind Velocity, Unit:	0 MPH	3 MPH	4 MPH
Wind Direction:		N	NW
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	71 F	70 F	70 F
Soil Moisture:	Adequate	Excessive	Adequate
% Cloud Cover:	75	100	75

Application Equipment

	A	B	C
Appl. Equipment:	CO2 backpack	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	38 PSI	39 PSI	39 PSI
Nozzle Type:	AI	AI	AI
Nozzle Size:	110015VS	110015VS	110015VS
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Boom Length, Unit:	60 IN	60 IN	60 IN
Boom Height, Unit:	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	Water	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

Mississippi State University Delta Research and Extension Center
Prowl Timing

Trial ID: 06-WS-15
Location: DREC

Crop Name							Rice	Rice
Rating Date								12-Sep-06
Rating Data Type							50% Head	Yield
Rating Unit							DAE	bu/A
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Appl Code	2	5
1	Cocodire						81 b	147 a-e
	Prowl EC	3.3	EC	2.4	PT/A			
	0 DAP					A		
2	Cocodire						81 b	159 a
	Prowl EC	3.3	EC	2.4	PT/A			
	3 DAP					B		
3	Cocodire						81 b	157 ab
	Prowl EC	3.3	EC	2.4	PT/A			
	7 DAP					C		
4	Cocodire						81 b	159 ab
	Prowl H2O	3.8	CS	2.08	PT/A			
	0 DAP					A		
5	Cocodire						81 b	152 a-d
	Prowl H2O	3.8	CS	2.08	PT/A			
	3 DAP					B		
6	Cocodire						81 b	154 abc
	Prowl H2O	3.8	CS	2.08	PT/A			
	7 DAP					C		
7	Lemont						87 a	134 cde
	Prowl EC	3.3	EC	2.4	PT/A			
	0 DAP					A		
8	Lemont						86 a	136 cde
	Prowl EC	3.3	EC	2.4	PT/A			
	3 DAP					B		
9	Lemont						86 a	135 cde
	Prowl EC	3.3	EC	2.4	PT/A			
	7 DAP					C		
10	Lemont						86 a	137 cde
	Prowl H2O	3.8	CS	2.08	PT/A			
	0 DAP					A		
11	Lemont						85 a	137 cde
	Prowl H2O	3.8	CS	2.08	PT/A			
	3 DAP					B		
12	Lemont						87 a	132 e
	Prowl H2O	3.8	CS	2.08	PT/A			
	7 DAP					C		
13	Wells						87 a	145 a-e
	Prowl EC	3.3	EC	2.4	PT/A			
	0 DAP					A		
14	Wells						87 a	147 a-e
	Prowl EC	3.3	EC	2.4	PT/A			
	3 DAP					B		
15	Wells						86 a	133 de
	Prowl EC	3.3	EC	2.4	PT/A			
	7 DAP					C		
16	Wells						86 a	141 a-e
	Prowl H2O	3.8	CS	2.08	PT/A			
	0 DAP					A		
17	Wells						86 a	139 b-e
	Prowl H2O	3.8	CS	2.08	PT/A			
	3 DAP					B		
18	Wells						86 a	140 a-e
	Prowl H2O	3.8	CS	2.08	PT/A			
	7 DAP					C		

Mississippi State University Delta Research and Extension Center
Prowl Timing

Trial ID: 06-WS-15
Location: DREC

Crop Name							Rice	Rice
Rating Date								12-Sep-06
Rating Data Type							50% Head	Yield
Rating Unit							DAE	bu/A
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Appl Code	2	5
19	Cocodrie - NTC						81 b	152 a-d
20	Lemont - NTC						86 a	131 e
21	Wells -NTC						87 a	129 e
Standard Deviation							1.2	11.8
CV							1.41	8.3

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Postemergence Applications of DPX-KF081

Trial ID: 06-WS-16
Location: DREC

Objective:
To determine the most effective application rate and timing of DPX-KF081 for control of broadleaf weed species.

Conclusions:
DPX-KF081 is a PPOase-inhibiting herbicide, which is the same mode of action as Aim and Ultra Blazer. This experimental herbicide was evaluated at five application rates applied to 1- to 2-leaf rice (EPOST), 4-leaf to 1-tiller rice, or 7 days after flood (7 d PTFLD). Weeds evaluated included hemp sesbania (SEBEX), ivyleaf morningglory (IPOHE), and pitted morningglory (IPOLA). Rice injury up to 13 and 10% was observed following EPOST and 7 d PTFLD applications, respectively. However, rice had recovered from injury by 21 days after treatment. Only the lowest rate of DPX-KF081 controlled SEBEX <90% 21 days after EPOST applications. In contrast, for LPOST and 7 d PTFLD applications, only the highest DPX-KF081 rate applied 7 d PTFLD controlled SEBEX >80% on 6-Jul-06. IPOHE and IPOLA control was more consistent than SEBEX control. On 6-Jul-06, only the lowest rate of DPX-KF081 controlled IPOHE and IPOLA <85%. EPOST applications of DPX-KF081 compared favorably with LPOST applications of Ultra Blazer, Permit, Aim, and Grandstand R.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: Cocodrie **Description:** Conventional variety
BBCH Scale: BRIC **Planting Date:** 15-May-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 72 F
Soil Moisture: Adequate **Emergence Date:** 23-May-06
Harvest Date: 21-Sep-06 **Harvest Equipment:** Mitsubishi VM-13
Harvested Width, Unit: 2.66 FT **Harvested Length, Unit:** 15 FT
% Standard Moisture: 12.0

Pest Description

Pest 1 Type: W **Code:** SEBEX *Sesbania exaltata*
Common Name: Hemp sesbania

Pest 2 Type: W **Code:** IPOHE *Ipomoea hederacea*
Common Name: Ivyleaf morningglory

Pest 3 Type: W **Code:** IPOLA *Ipomoea lacunosa*
Common Name: Pitted morningglory

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Complete Block
% Slope: 0.1 **Soil Drainage:** G Good

Mississippi State University Delta Research and Extension Center
Postemergence Applications of DPX-KF081

Trial ID: 06-WS-16
Location: DREC

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	16-May-06	Command	3	ME	1	PT/A
2.	9-Jun-06	Clincher SF	2.38	EC	15	FL OZ/A
3.	14-Jun-06	Urea (46:0:0)	46	GR	325	LB/A
4.	15-Jun-06	Karate Z	2.08	CS	2	FL OZ/A
5.	27-Jun-06	Clincher SF	2.38	EC	15	FL OZ/A
6.	25-Jul-06	Ultra Blazer	2	L	1	PT/A

Comment: Ultra Blazer application on 25-Jul-06 was made to control hemp sesbania so that the experiment could be harvested.

Field Prep./Maintenance:
Tillage - Triple-K, 3-May-06 and 15-May-06.

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 0.5 **Unit:** MI

	Date	Type
1.	22-May-06	Flush
2.	6-Jun-06	Flush
3.	15-Jun-06	Flood
4.	5-Sep-06	Drain

Mississippi State University Delta Research and Extension Center
Postemergence Applications of DPX-KF081

Trial ID: 06-WS-16
Location: DREC

Application Description

	A	B	C
Application Date:	31-May-06	12-Jun-06	23-Jun-06
Time of Day:	6:15 am	9:00 am	8:45 am
Application Method:	Broadcast	Broadcast	Broadcast
Application Timing:	EPOST	LPOST	7d PTFLD
Application Placement:	Foliar	Foliar	Foliar
Applied By:	JAB	JAB	JAB, LCV
Air Temperature, Unit:	78 F	94 F	86 F
% Relative Humidity:	85	50	68
Wind Velocity, Unit:	2 MPH	4 MPH	4 MPH
Wind Direction:	W	NW	W
Dew Presence (Y/N):	Y	N	Y
Soil Temperature, Unit:	72 F	78 F	
Soil Moisture:	Excessive	Adequate	Flood
% Cloud Cover:	80	10	0

Crop Stage At Each Application

	A	B	C
Crop 1 Code:	ORYSA	ORYSA	ORYSA
Stage Majority, Percent:	2 leaf	1 tiller	3 tiller
Stage Minimum, Percent:	2 leaf	1 tiller	3 tiller
Stage Maximum, Percent:	3 leaf	2 tiller	4 tiller
Height, Unit:	6 IN	8 IN	12 IN
Height Minimum, Maximum:	4 6	7 9	11 13

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	SEBEX W	SEBEX W	SEBEX W
Stage Majority, Percent:	2 leaf	5 leaf	9 leaf
Stage Minimum, Percent:	1 leaf	5 leaf	8 leaf
Stage Maximum, Percent:	2 leaf	6 leaf	9 leaf
Height, Unit:	2 IN	5 IN	14 IN
Height Minimum, Maximum:	1 2	4 5	11 18
Density, Unit:	5 FT2	6 FT2	6 FT2
Pest 2 Code, Disc., Scale:	IPOHE W	IPOHE W	IPOHE W
Stage Majority, Percent:	1 leaf	5 leaf	7 leaf
Stage Minimum, Percent:	1 leaf	5 leaf	6 leaf
Stage Maximum, Percent:	1 leaf	6 leaf	8 leaf
Height, Unit:	2 IN	5 IN	8 IN
Height Minimum, Maximum:	1 2	4 5	6 9
Density, Unit:	4 FT2	3 FT2	3 FT2
Pest 3 Code, Disc., Scale:	IPOLA W	IPOLA W	IPOLA W
Stage Majority, Percent:	1 leaf	5 leaf	7 leaf
Stage Minimum, Percent:	1 leaf	5 leaf	6 leaf
Stage Maximum, Percent:	1 leaf	6 leaf	8 leaf
Height, Unit:	2 IN	5 IN	8 IN
Height Minimum, Maximum:	1 2	4 5	6 9
Density, Unit:	3 FT2	2 FT2	2 FT2

Mississippi State University Delta Research and Extension Center
Postemergence Applications of DPX-KF081

Trial ID: 06-WS-16
Location: DREC

Application Equipment

	A	B	C
Appl. Equipment:	CO2 backpack	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	34 PSI	24 PSI	24 PSI
Nozzle Type:	XR	DG	TT
Nozzle Size:	110015VS	110015VS	11001
Nozzle Spacing, Unit:	20 IN	16 IN	16 IN
Boom Length, Unit:	60 IN	64 IN	64 IN
Boom Height, Unit:	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	2 MPH
Carrier:	Water	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

Date	By	Notes
13-Jun-06	JAB	Weed populations were low in the last three drill passes in the experiment. Plots within this area were rated based on the weed pressure in these plots.
30-Jun-06	JAB	Morningglory species were killed by floodwater.

Mississippi State University Delta Research and Extension Center
Postemergence Applications of DPX-KF081

Trial ID: 06-WS-16
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	7-Jun-06 Rice Injury % 7 7 7 DA-A 1	13-Jun-06 Rice Injury % 13 1 13 DA-A 2	20-Jun-06 Rice Injury % 20 8 8 DA-B 3	30-Jun-06 Rice Injury % 30 7 7 DA-C 4	6-Jul-06 Rice Injury % 36 13 13 DA-C 5	SEBEX 7-Jun-06 Control % 7 7 7 DA-A 7
1	Nontreated							0 e	0 c	0 b	0 e	0 b	0 d
2	DPX-KF081	10	WP	18.4	OZ/A	EPOST	A	13 a	5 a	3 a	3 d	0 b	96 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A						
3	DPX-KF081	10	WP	12.3	OZ/A	EPOST	A	10 b	5 a	2 ab	1 e	0 b	95 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A						
4	DPX-KF081	10	WP	9.2	OZ/A	EPOST	A	8 c	4 ab	1 ab	1 e	0 b	90 b
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A						
5	DPX-KF081	10	WP	7.04	OZ/A	EPOST	A	5 d	3 ab	0 b	0 e	0 b	90 b
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A						
6	DPX-KF081	10	WP	4.6	OZ/A	EPOST	A	3 d	2 b	0 b	0 e	0 b	81 c
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A						
7	DPX-KF081	10	WP	18.4	OZ/A	LPOST	B			1 b	0 e	0 b	
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B						
8	DPX-KF081	10	WP	12.3	OZ/A	LPOST	B			0 b	0 e	0 b	
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B						
9	DPX-KF081	10	WP	9.2	OZ/A	LPOST	B			0 b	0 e	0 b	
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B						
10	DPX-KF081	10	WP	7.04	OZ/A	LPOST	B			0 b	0 e	0 b	
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B						
11	DPX-KF081	10	WP	4.6	OZ/A	LPOST	B			0 b	0 e	0 b	
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B						
12	DPX-KF081	10	WP	18.4	OZ/A	7 d PTFLD	C				10 a	3 a	
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C						
13	DPX-KF081	10	WP	12.3	OZ/A	7 d PTFLD	C				5 b	3 a	
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C						
14	DPX-KF081	10	WP	9.2	OZ/A	7 d PTFLD	C				5 bc	1 b	
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C						
15	DPX-KF081	10	WP	7.04	OZ/A	7 d PTFLD	C				4 cd	0 b	
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C						
16	DPX-KF081	10	WP	4.6	OZ/A	7 d PTFLD	C				3 d	0 b	
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C						
17	Ultra Blazer	2	L	8	FL OZ/A	LPOST	C			0 b	0 e	0 b	
	Induce		L	4.8	FL OZ/A	LPOST	C						
18	Permit	75	WG	0.75	OZ/A	LPOST	C			0 b	0 e	0 b	
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C						
19	Aim	2	EC	1.6	FL OZ/A	LPOST	C			1 b	0 e	0 b	
	Induce		L	4.8	FL OZ/A	LPOST	C						
20	Grandstand R	3	SL	16	FL OZ/A	LPOST	C			0 b	0 e	0 b	
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C						
Standard Deviation								1.4	1.0	1.1	0.7	0.6	3.6
CV								21.57	33.38	237.82	48.85	176.69	4.82

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Postemergence Applications of DPX-KF081

Trial ID: 06-WS-16
Location: DREC

Pest Code								SEBEX	SEBEX	SEBEX	SEBEX	SEBEX	IPOHE	IPOHE
Rating Date								13-Jun-06	20-Jun-06	30-Jun-06	6-Jul-06	19-Jul-06	7-Jun-06	13-Jun-06
Rating Data Type								Control	Control	Control	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%	%
Days After First/Last Applic.								13 1	20 8	30 7	36 13	49 26	7 7	13 1
Trt-Eval Interval								13 DA-A	8 DA-B	7 DA-C	13 DA-C	26 DA-C	7 DA-A	13 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	8	9	10	11	12	13	14
1	Nontreated							0 c	0 f	0 i	0 h	0 g	0 d	0 c
2	DPX-KF081	10	WP	18.4	OZ/A	EPOST	A	97 a	96 a	93 ab	92 ab	92 a	97 a	98 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
3	DPX-KF081	10	WP	12.3	OZ/A	EPOST	A	94 a	91 ab	91 ab	89 abc	88 abc	96 ab	96 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
4	DPX-KF081	10	WP	9.2	OZ/A	EPOST	A	93 a	94 a	91 ab	89 abc	86 abc	94 ab	95 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
5	DPX-KF081	10	WP	7.04	OZ/A	EPOST	A	93 a	91 ab	89 abc	86 a-d	89 ab	91 bc	91 b
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
6	DPX-KF081	10	WP	4.6	OZ/A	EPOST	A	86 b	83 bc	76 c-f	76 cde	73 b-e	88 c	91 b
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
7	DPX-KF081	10	WP	18.4	OZ/A	LPOST	B		78 c	75 c-f	73 e	61 def		
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B							
8	DPX-KF081	10	WP	12.3	OZ/A	LPOST	B		64 d	59 gh	58 fg	53 f		
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B							
9	DPX-KF081	10	WP	9.2	OZ/A	LPOST	B		78 c	81 b-e	79 cde	75 bcd		
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B							
10	DPX-KF081	10	WP	7.04	OZ/A	LPOST	B		65 d	70 efg	71 e	71 cde		
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B							
11	DPX-KF081	10	WP	4.6	OZ/A	LPOST	B		53 e	58 gh	70 e	59 def		
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B							
12	DPX-KF081	10	WP	18.4	OZ/A	7 d PTFLD	C			86 a-d	81 b-e	74 b-e		
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
13	DPX-KF081	10	WP	12.3	OZ/A	7 d PTFLD	C			74 def	75 de	66 def		
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
14	DPX-KF081	10	WP	9.2	OZ/A	7 d PTFLD	C			75 c-f	75 de	63 def		
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
15	DPX-KF081	10	WP	7.04	OZ/A	7 d PTFLD	C			64 fg	69 ef	58 ef		
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
16	DPX-KF081	10	WP	4.6	OZ/A	7 d PTFLD	C			48 h	56 g	50 f		
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
17	Ultra Blazer	2	L	8	FL OZ/A	LPOST	C		91 ab	96 a	92 ab	92 a		
	Induce		L	4.8	FL OZ/A	LPOST	C							
18	Permit	75	WG	0.75	OZ/A	LPOST	C		79 c	92 ab	94 ab	94 a		
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C							
19	Aim	2	EC	1.6	FL OZ/A	LPOST	C		97 a	99 a	99 a	99 a		
	Induce		L	4.8	FL OZ/A	LPOST	C							
20	Grandstand R	3	SL	16	FL OZ/A	LPOST	C		80 c	89 abc	87 a-d	86 abc		
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C							
Standard Deviation								2.6	6.7	8.6	8.1	10.5	3.3	2.5
CV								3.38	8.8	11.46	10.69	14.77	4.26	3.22

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Postemergence Applications of DPX-KF081

Trial ID: 06-WS-16
Location: DREC

Pest Code								IPOHE	IPOHE	IPOHE	IPOHE	IPOLA	IPOLA	IPOLA
Rating Date								20-Jun-06	30-Jun-06	6-Jul-06	19-Jul-06	13-Jun-06	20-Jun-06	30-Jun-06
Rating Data Type								Control	Control	Control	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%	%
Days After First/Last Applic.								20 8	30 7	36 13	49 26	13 1	20 8	30 7
Trt-Eval Interval								8 DA-B	7 DA-C	13 DA-C	26 DA-C	13 DA-A	8 DA-B	7 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	15	16	17	18	19	20	21
1	Nontreated							0 h	0 f	0 h	0 d	0 c	0 h	0 g
2	DPX-KF081	10	WP	18.4	OZ/A	EPOST	A	98 ab	98 a	98 ab	98 a	96 a	97 abc	98 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
3	DPX-KF081	10	WP	12.3	OZ/A	EPOST	A	98 ab	99 a	99 a	99 a	93 a	98 ab	99 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
4	DPX-KF081	10	WP	9.2	OZ/A	EPOST	A	97 abc	97 a	97 abc	97 a	93 a	96 a-d	98 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
5	DPX-KF081	10	WP	7.04	OZ/A	EPOST	A	97 abc	97 a	97 abc	97 a	91 a	97 abc	97 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
6	DPX-KF081	10	WP	4.6	OZ/A	EPOST	A	95 a-d	93 ab	94 a-e	94 abc	86 b	90 b-e	90 abc
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
7	DPX-KF081	10	WP	18.4	OZ/A	LPOST	B	93 a-d	91 abc	92 b-f	91 bc		91 a-e	91 abc
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B							
8	DPX-KF081	10	WP	12.3	OZ/A	LPOST	B	90 cde	89 abc	89 ef	89 c		89 cde	86 bcd
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B							
9	DPX-KF081	10	WP	9.2	OZ/A	LPOST	B	91 b-e	94 ab	94 a-e	94 abc		88 de	90 abc
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B							
10	DPX-KF081	10	WP	7.04	OZ/A	LPOST	B	85 efg	85 bc	90 def	90 bc		84 ef	86 bcd
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B							
11	DPX-KF081	10	WP	4.6	OZ/A	LPOST	B	83 fg	81 cd	86 fg	91 bc		74 g	78 de
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B							
12	DPX-KF081	10	WP	18.4	OZ/A	7 d PTFLD	C		89 abc	93 a-f	89 c			89 abc
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
13	DPX-KF081	10	WP	12.3	OZ/A	7 d PTFLD	C		81 cd	91 c-f	89 c			81 cde
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
14	DPX-KF081	10	WP	9.2	OZ/A	7 d PTFLD	C		84 bc	91 c-f	91 bc			84 cde
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
15	DPX-KF081	10	WP	7.04	OZ/A	7 d PTFLD	C		74 d	88 efg	90 bc			74 e
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
16	DPX-KF081	10	WP	4.6	OZ/A	7 d PTFLD	C		50 e	83 g	90 bc			50 f
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C							
17	Ultra Blazer	2	L	8	FL OZ/A	LPOST	C	94 a-d	97 a	98 ab	98 a		94 a-d	97 ab
	Induce		L	4.8	FL OZ/A	LPOST	C							
18	Permit	75	WG	0.75	OZ/A	LPOST	C	80 g	98 a	98 ab	98 a		79 fg	98 ab
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C							
19	Aim	2	EC	1.6	FL OZ/A	LPOST	C	99 a	99 a	99 a	99 a		99 a	99 a
	Induce		L	4.8	FL OZ/A	LPOST	C							
20	Grandstand R	3	SL	16	FL OZ/A	LPOST	C	89 def	97 a	96 a-d	96 ab		88 de	97 ab
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C							
Standard Deviation								4.3	6.4	4.0	3.5	2.9	5.3	7.0
CV								5.01	7.55	4.49	3.91	3.78	6.26	8.34

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Postemergence Applications of DPX-KF081

Trial ID: 06-WS-16
Location: DREC

Pest Code								IPOLA	IPOLA	
Rating Date								6-Jul-06	19-Jul-06	21-Sep-06
Rating Data Type								Control	Control	Yield
Rating Unit								%	%	bu/A
Days After First/Last Applic.								36 13	49 26	
Trt-Eval Interval								13 DA-C	26 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	22	23	26
1	Nontreated							0 g	0 e	171 a
2	DPX-KF081	10	WP	18.4	OZ/A	EPOST	A	98 ab	98 a	180 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A			
3	DPX-KF081	10	WP	12.3	OZ/A	EPOST	A	99 a	99 a	175 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A			
4	DPX-KF081	10	WP	9.2	OZ/A	EPOST	A	98 ab	98 a	183 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A			
5	DPX-KF081	10	WP	7.04	OZ/A	EPOST	A	97 abc	97 a	178 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A			
6	DPX-KF081	10	WP	4.6	OZ/A	EPOST	A	95 a-d	94 abc	178 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A			
7	DPX-KF081	10	WP	18.4	OZ/A	LPOST	B	94 a-d	94 abc	180 a
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B			
8	DPX-KF081	10	WP	12.3	OZ/A	LPOST	B	86 ef	85 d	173 a
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B			
9	DPX-KF081	10	WP	9.2	OZ/A	LPOST	B	94 a-d	94 abc	175 a
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B			
10	DPX-KF081	10	WP	7.04	OZ/A	LPOST	B	90 de	94 abc	185 a
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B			
11	DPX-KF081	10	WP	4.6	OZ/A	LPOST	B	89 def	89 cd	172 a
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B			
12	DPX-KF081	10	WP	18.4	OZ/A	7 d PTFLD	C	93 bcd	89 cd	174 a
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C			
13	DPX-KF081	10	WP	12.3	OZ/A	7 d PTFLD	C	91 cde	85 d	171 a
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C			
14	DPX-KF081	10	WP	9.2	OZ/A	7 d PTFLD	C	91 cde	89 cd	177 a
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C			
15	DPX-KF081	10	WP	7.04	OZ/A	7 d PTFLD	C	89 def	90 bcd	178 a
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C			
16	DPX-KF081	10	WP	4.6	OZ/A	7 d PTFLD	C	84 f	88 cd	166 a
	Agri-Dex		L	19.2	FL OZ/A	7 d PTFLD	C			
17	Ultra Blazer	2	L	8	FL OZ/A	LPOST	C	98 ab	98 a	171 a
	Induce		L	4.8	FL OZ/A	LPOST	C			
18	Permit	75	WG	0.75	OZ/A	LPOST	C	98 ab	98 a	178 a
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C			
19	Aim	2	EC	1.6	FL OZ/A	LPOST	C	99 a	99 a	174 a
	Induce		L	4.8	FL OZ/A	LPOST	C			
20	Grandstand R	3	SL	16	FL OZ/A	LPOST	C	97 abc	96 ab	172 a
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C			
Standard Deviation								3.7	4.1	10.4
CV								4.12	4.61	5.95

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Rice Tolerance to DPX-KF081 Applications

Trial ID: 06-WS-17
Location: DREC

Objective:
To determine the rice response to different application rates and timings of DPX-KF081.

Conclusions:
DPX-KF081 is a PPOase-inhibiting herbicide, which is the same mode of action as Aim and Ultra Blazer. This experimental herbicide was evaluated at four application rates applied to 1- to 2-leaf rice (EPOST), 4-leaf to 1-tiller rice (LPOST) or in sequential applications (EPOST followed by LPOST). EPOST applications were more injurious to rice than LPOST applications. However, injury from single applications was no more than 4% by 10-Jul-06. Injury following sequential applications persisted longer than that from single applications but was no more than 11% on 10-Jul-06. Rice maturity was delayed slightly for each application timing when the highest rate was applied. However, by the end of the year, rice yields were equivalent following all treatments.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: Cocodrie **Description:** Conventional variety
BBCH Scale: BRIC **Planting Date:** 15-May-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 72 F
Soil Moisture: Adequate **Emergence Date:** 23-May-06
Harvest Date: 20-Sep-06 **Harvest Equipment:** Mitsubishi VM-13
Harvested Width, Unit: 2.66 FT **Harvested Length, Unit:** 15 FT
% Standard Moisture: 12.0

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Complete Block
% Slope: 0.1 **Soil Drainage:** G Good

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	16-May-06	Command	3	ME	1	PT/A
2.	2-Jun-06	Grandstand R	3	SL	12	FL OZ/A
3.	2-Jun-06	Permit	75	WG	1	OZ/A
4.	2-Jun-06	Agri-Dex		L	0.5	% V/V
5.	9-Jun-06	Clincher SF	2.38	EC	15	FL OZ/A
6.	14-Jun-06	Urea (46:0:0)	46	GR	325	LB/A
7.	15-Jun-06	Karate Z	2.08	CS	2	FL OZ/A
8.	27-Jun-06	Clincher SF	2.38	EC	15	FL OZ/A
9.	25-Jul-06	Ultra Blazer	2	L	1	PT/A
10.	4-Aug-06	Quadris	2.08	SC	12	FL OZ/A

Field Prep./Maintenance:
Tillage - Triple-K, 3-May-06 and 15-May-06.

Mississippi State University Delta Research and Extension Center
Rice Tolerance to DPX-KF081 Applications

Trial ID: 06-WS-17
Location: DREC

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 0.5 **Unit:** MI

	Date	Type
1.	22-May-06	Flush
2.	6-Jun-06	Flush
3.	15-Jun-06	Flood
4.	5-Sep-06	Drain

Application Description

	A	B
Application Date:	31-May-06	12-Jun-06
Time of Day:	6:30 am	9:15 am
Application Method:	Broadcast	Broadcast
Application Timing:	EPOST	LPOST
Application Placement:	Foliar	Foliar
Applied By:	JAB	JAB
Air Temperature, Unit:	78 F	94 F
% Relative Humidity:	85	50
Wind Velocity, Unit:	2 MPH	4 MPH
Wind Direction:	W	NW
Dew Presence (Y/N):	Y	N
Soil Temperature, Unit:	77 F	78 F
Soil Moisture:	Excessive	Adequate
% Cloud Cover:	80	10

Crop Stage At Each Application

	A	B
Crop 1 Code:	ORYSA	ORYSA
Stage Majority, Percent:	2 leaf	1 tiller
Stage Minimum, Percent:	2 leaf	1 tiller
Stage Maximum, Percent:	3 leaf	2 tiller
Height, Unit:	5 IN	8 IN
Height Minimum, Maximum:	4 6	7 9

Mississippi State University Delta Research and Extension Center
Rice Tolerance to DPX-KF081 Applications

Trial ID: 06-WS-17
Location: DREC

Application Equipment

	A	B
Appl. Equipment:	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	34 PSI	24 PSI
Nozzle Type:	XR	DG
Nozzle Size:	110015VS	110015VS
Nozzle Spacing, Unit:	20 IN	16 IN
Boom Length, Unit:	60 IN	64 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA

Mississippi State University Delta Research and Extension Center
Rice Tolerance to DPX-KF081 Applications

Trial ID: 06-WS-17
Location: DREC

Crop Name								Rice	Rice	Rice	Rice	Rice	Rice	Rice
Rating Date								7-Jun-06	12-Jun-06	20-Jun-06	27-Jun-06	10-Jul-06		20-Sep-06
Rating Data Type								Rice Injury	Rice Injury	Rice Injury	Rice Injury	Rice Injury	50% Head	Yield
Rating Unit								%	%	%	%	%	DAE	bu/A
Days After First/Last Applic.								7 7	12 0	20 8	27 15	40 28		
Trt-Eval Interval								7 DA-A	12 DA-A	8 DA-B	15 DA-B	28 DA-B		
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	7	10
1	Nontreated							0 g	0 d	0 f	0 d	0 b	77 f	185 a
2	DPX-KF081	10	WP	36.8	OZ/A	EPOST	A	21 ab	13 a	13 bc	7 bc	3 b	81 abc	182 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
3	DPX-KF081	10	WP	18.4	OZ/A	EPOST	A	14 cd	10 ab	10 bcd	7 bc	4 b	80 bcd	190 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
4	DPX-KF081	10	WP	9.2	OZ/A	EPOST	A	11 cde	8 abc	8 cde	7 abc	2 b	80 bcd	187 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
5	DPX-KF081	10	WP	4.6	OZ/A	EPOST	A	8 ef	5 bcd	5 ef	3 cd	2 b	79 de	181 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
6	DPX-KF081	10	WP	36.8	OZ/A	LPOST	B			5 def	3 cd	1 b	79 de	191 a
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B							
7	DPX-KF081	10	WP	18.4	OZ/A	LPOST	B			3 ef	2 cd	0 b	78 ef	180 a
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B							
8	DPX-KF081	10	WP	9.2	OZ/A	LPOST	B			3 ef	0 d	0 b	78 ef	187 a
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B							
9	DPX-KF081	10	WP	4.6	OZ/A	LPOST	B			3 ef	2 cd	0 b	79 de	187 a
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B							
10	DPX-KF081	10	WP	36.8	OZ/A	EPOST	A	23 a	8 abc	19 a	13 a	11 a	82 a	192 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	DPX-KF081	10	WP	36.8	OZ/A	LPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B							
11	DPX-KF081	10	WP	18.4	OZ/A	EPOST	A	16 bc	13 a	14 b	11 ab	10 a	81 ab	172 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	DPX-KF081	10	WP	18.4	OZ/A	LPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B							
12	DPX-KF081	10	WP	9.2	OZ/A	EPOST	A	10 def	7 abc	7 de	7 bc	3 b	79 de	186 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	DPX-KF081	10	WP	9.2	OZ/A	LPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B							
13	DPX-KF081	10	WP	4.6	OZ/A	EPOST	A	5 fg	4 cd	5 def	4 cd	1 b	80 cd	181 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A							
	DPX-KF081	10	WP	4.6	OZ/A	LPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	LPOST	B							
Standard Deviation								3.6	4.0	3.3	3.7	2.5	0.8	8.7
CV								29.87	53.59	46.43	76.0	92.24	1.02	4.71

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Mid Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-18
Location: DREC

Objective:
To determine the effectiveness of IR5878 as a component of mid postemergence weed control programs in Mississippi.

Conclusions:
IR5878 is an ALS-inhibiting herbicide, which is the same mode of action as Regiment and Permit. Although nutsedge is one of the primary targets of IR5878, no nutsedge was present in the test area in 2006. In this experiment, IR5878 was applied to 3- to 4-leaf rice (MPOST) alone and in combination with other herbicides. Weeds evaluated included hemp sesbania (SEBEX), ivyleaf morningglory (IPOHE), pitted morningglory (IPOLA), barnyardgrass (ECHCG), and browntop millet (PANRA). No treatment injured rice >5%. At 14 days after MPOST applications, only treatments which included Super Wham or Aim controlled SEBEX >91%. By 28 days after MPOST applications, SEBEX, IPOHE, and IPOLA were controlled >93% by all treatments. IR5878 provided sufficient control of broadleaf weeds until flood. Data indicate that IR5878 is an option for SEBEX control in rice.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: Cocodrie **Description:** Conventional variety
BBCH Scale: BRIC **Planting Date:** 15-May-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 72 F
Soil Moisture: Adequate **Emergence Date:** 23-May-06

Pest Description

Pest 1 Type: W **Code:** SEBEX *Sesbania exaltata*
Common Name: Hemp sesbania

Pest 2 Type: W **Code:** IPOHE *Ipomoea hederacea*
Common Name: Ivyleaf morningglory

Pest 3 Type: W **Code:** IPOLA *Ipomoea lacunosa*
Common Name: Pitted morningglory

Pest 4 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Common barnyardgrass

Pest 5 Type: W **Code:** PANRA *Brachiaria ramosa*
Common Name: Browntop millet

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Complete Block
% Slope: 0.1 **Soil Drainage:** G Good

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	15-Jun-06	Karate Z	2.08	CS	2	FL OZ/A
2.	14-Jun-06	Urea (46:0:0)	46	GR	325	LB/A
3.	25-Jul-06	Ultra Blazer	2	L	1	PT/A

Comment: Ultra Blazer application on 25-Jul-06 was made to control hemp sesbania so that the experiment could be harvested.

Mississippi State University Delta Research and Extension Center
Mid Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-18
Location: DREC

Field Prep./Maintenance:
Tillage - Triple-K, 3-May-06 and 15-May-06.

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 0.5 **Unit:** MI

	Date	Type
1.	22-May-06	Flush
2.	6-Jun-06	Flush
3.	15-Jun-06	Flood
4.	5-Sep-06	Drain

Application Description

	A	B	C
Application Date:	17-May-06	5-Jun-06	19-Jun-06
Time of Day:	7:00 am	7:00 am	9:00 am
Application Method:	Broadcast	Broadcast	Broadcast
Application Timing:	PRE	MPOST	PTFLD
Application Placement:	Soil	Foliar	Foliar
Applied By:	JAB	JAB	JAB, LCV
Air Temperature, Unit:	64 F	94 F	94 F
% Relative Humidity:	56	56	56
Wind Velocity, Unit:	4 MPH	3 MPH	0 MPH
Wind Direction:	NW	NW	
Dew Presence (Y/N):	N	N	Y
Soil Temperature, Unit:	67 F	74 F	
Soil Moisture:	Adequate	Adequate	Flood
% Cloud Cover:	50	5	20

Crop Stage At Each Application

	A	B	C
Crop 1 Code:	ORYSA	ORYSA	ORYSA
Stage Majority, Percent:		3 leaf	2 tiller
Stage Minimum, Percent:		3 leaf	3 tiller
Stage Maximum, Percent:		4 leaf	3 tiller
Height, Unit:		7 IN	10 IN
Height Minimum, Maximum:		6 8	8 11

Mississippi State University Delta Research and Extension Center
Mid Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-18
Location: DREC

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	SEBEX W	SEBEX W	SEBEX W
Stage Majority, Percent:		3 leaf	
Stage Minimum, Percent:		3 leaf	
Stage Maximum, Percent:		4 leaf	
Height, Unit:		4 IN	
Height Minimum, Maximum:		3 4	
Density, Unit:		4 FT2	
Pest 2 Code, Disc., Scale:	IPOHE W	IPOHE W	IPOHE W
Stage Majority, Percent:		3 leaf	
Stage Minimum, Percent:		2 leaf	
Stage Maximum, Percent:		3 leaf	
Height, Unit:		2 IN	
Height Minimum, Maximum:		1 2	
Density, Unit:		3 FT2	
Pest 3 Code, Disc., Scale:	IPOLA W	IPOLA W	IPOLA W
Stage Majority, Percent:		3 leaf	
Stage Minimum, Percent:		2 leaf	
Stage Maximum, Percent:		3 leaf	
Height, Unit:		2 IN	
Height Minimum, Maximum:		1 2	
Density, Unit:		3 FT2	
Pest 4 Code, Disc., Scale:	ECHCG W	ECHCG W	ECHCG W
Stage Majority, Percent:		2 leaf	3 till
Stage Minimum, Percent:		1 leaf	4 leaf
Stage Maximum, Percent:		2 leaf	5 till
Height, Unit:		2 IN	8 IN
Height Minimum, Maximum:		1 2	4 12
Density, Unit:		3 FT2	6 FT2
Pest 5 Code, Disc., Scale:	PANRA W	PANRA W	PANRA W
Stage Majority, Percent:		2 leaf	4 leaf
Stage Minimum, Percent:		1 leaf	3 leaf
Stage Maximum, Percent:		2 leaf	1 till
Height, Unit:		2 IN	4 IN
Height Minimum, Maximum:		1 2	2 4
Density, Unit:		2 FT2	5 FT2

Application Equipment

	A	B	C
Appl. Equipment:	CO2 backpack	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	38 PSI	24 PSI	24 PSI
Nozzle Type:	AI	DG	XR
Nozzle Size:	110015VS	11002VS	11001VS
Nozzle Spacing, Unit:	20 IN	20 IN	16 IN
Nozzles/Row:	3	3	4
Boom Length, Unit:	60 IN	60 IN	64 IN
Boom Height, Unit:	16 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	2 MPH
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

Date	By	Notes
19-Jun-06	JAB	Morningglory species were killed by floodwater.

Mississippi State University Delta Research and Extension Center
Mid Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-18
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6
	Pest Code										SEBEX	SEBEX	SEBEX
	Rating Date							12-Jun-06	19-Jun-06	3-Jul-06	5-Jun-06	12-Jun-06	19-Jun-06
	Rating Data Type							Rice Injury	Rice Injury	Rice Injury	Control	Control	Control
	Rating Unit							%	%	%	%	%	%
	Days After First/Last Applic.							26 7	33 0	47 14	19 0	26 7	33 0
	Trt-Eval Interval							7 DA-B	14 DA-B	28 DA-B	19 DA-A	7 DA-B	14 DA-B
1	Treated Check							0 c	0 d	0 c	0 a	0 f	0 g
	Command	3	ME	12.8	FL OZ/A	PRE	A						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
2	Command	3	ME	12.8	FL OZ/A	PRE	A	0 c	2 bcd	0 c	5 a	70 e	79 f
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Induce		L	4.8	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
3	Command	3	ME	12.8	FL OZ/A	PRE	A	5 a	2 bcd	0 c	5 a	96 a	96 ab
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Super Wham	4	SC	3	QT/A	MPOST	B						
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
4	Command	3	ME	12.8	FL OZ/A	PRE	A	5 a	5 a	0 c	5 a	98 a	99 a
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Super Wham	4	SC	4	QT/A	MPOST	B						
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
5	IR5878	50	WG	2.1	OZ/A	MPOST	B	0 c	0 d	0 c		73 de	88 cd
	Facet	75	DF	10.7	OZ/A	MPOST	B						
	Agri-Dex		L	1	QT/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
6	Grasp	2	SC	2	FL OZ/A	MPOST	B	0 c	3 abc	5 a		86 b	89 cd
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
7	Command	3	ME	12.8	FL OZ/A	PRE	A	0 c	0 d	0 c	3 a	70 e	86 cde
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Facet	75	DF	10.7	OZ/A	MPOST	B						
	Agri-Dex		L	1	QT/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
8	Command	3	ME	12.8	FL OZ/A	PRE	A	0 c	2 bcd	0 c	5 a	78 cd	84 def
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Permit	75	WG	0.25	OZ/A	MPOST	B						
	Induce		L	4.8	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
9	Command	3	ME	12.8	FL OZ/A	PRE	A	0 c	2 bcd	0 c	3 a	83 bc	91 bc
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Permit	75	WG	0.33	OZ/A	MPOST	B						
	Induce		L	4.8	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						

Mississippi State University Delta Research and Extension Center
Mid Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-18
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6
	Pest Code										SEBEX	SEBEX	SEBEX
	Rating Date							12-Jun-06	19-Jun-06	3-Jul-06	5-Jun-06	12-Jun-06	19-Jun-06
	Rating Data Type							Rice Injury	Rice Injury	Rice Injury	Control	Control	Control
	Rating Unit							%	%	%	%	%	%
	Days After First/Last Applic.							26 7	33 0	47 14	19 0	26 7	33 0
	Trt-Eval Interval							7 DA-B	14 DA-B	28 DA-B	19 DA-A	7 DA-B	14 DA-B
10	Command	3	ME	12.8	FL OZ/A	PRE	A	0 c	1 cd	0 c	3 a	78 cd	81 ef
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Grandstand R	3	SL	10.7	OZ/A	MPOST	B						
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
11	Command	3	ME	12.8	FL OZ/A	PRE	A	3 b	0 d	0 c	0 a	97 a	98 a
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Aim	2	EC	1	FL OZ/A	MPOST	B						
	Induce		L	4.8	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
12	Command	3	ME	12.8	FL OZ/A	PRE	A	5 a	4 ab	2 b	5 a	97 a	99 a
	Permit	75	WG	1	OZ/A	MPOST	B						
	Super Wham	4	SC	4	QT/A	MPOST	B						
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
	Standard Deviation							0.4	1.5	0.5	5.1	3.9	3.4
	CV							29.25	90.83	93.8	156.39	5.08	4.08

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Mid Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-18
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	SEBEX	IPOHE	IPOHE	IPOHE	IPOHE	IPOLA
	Pest Code							SEBEX	IPOHE	IPOHE	IPOHE	IPOHE	IPOLA
	Rating Date							3-Jul-06	5-Jun-06	12-Jun-06	19-Jun-06	3-Jul-06	12-Jun-06
	Rating Data Type							Control	Control	Control	Control	Control	Control
	Rating Unit							%	%	%	%	%	%
	Days After First/Last Applic.							47 14	19 0	26 7	33 0	47 14	26 7
	Trt-Eval Interval							28 DA-B	19 DA-A	7 DA-B	14 DA-B	28 DA-B	7 DA-B
								7	8	9	10	11	12
1	Treated Check							0 c	5 a	1 e	1 d	55 b	0 e
	Command	3	ME	12.8	FL OZ/A	PRE	A						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
2	Command	3	ME	12.8	FL OZ/A	PRE	A	93 b	6 a	71 d	90 c	98 a	71 d
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Induce		L	4.8	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
3	Command	3	ME	12.8	FL OZ/A	PRE	A	99 a	10 a	97 a	97 ab	99 a	96 a
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Super Wham	4	SC	3	QT/A	MPOST	B						
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
4	Command	3	ME	12.8	FL OZ/A	PRE	A	99 a	6 a	97 a	98 a	99 a	97 a
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Super Wham	4	SC	4	QT/A	MPOST	B						
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
5	IR5878	50	WG	2.1	OZ/A	MPOST	B	99 a		84 b	98 a	99 a	85 b
	Facet	75	DF	10.7	OZ/A	MPOST	B						
	Agri-Dex		L	1	QT/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
6	Grasp	2	SC	2	FL OZ/A	MPOST	B	99 a		71 d	94 b	99 a	75 cd
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
7	Command	3	ME	12.8	FL OZ/A	PRE	A	99 a	8 a	83 b	96 ab	99 a	84 b
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Facet	75	DF	10.7	OZ/A	MPOST	B						
	Agri-Dex		L	1	QT/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
8	Command	3	ME	12.8	FL OZ/A	PRE	A	99 a	3 a	78 bcd	94 b	99 a	76 cd
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Permit	75	WG	0.25	OZ/A	MPOST	B						
	Induce		L	4.8	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
9	Command	3	ME	12.8	FL OZ/A	PRE	A	99 a	5 a	75 cd	96 ab	99 a	79 bc
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Permit	75	WG	0.33	OZ/A	MPOST	B						
	Induce		L	4.8	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						

Mississippi State University Delta Research and Extension Center
Mid Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-18
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
Pest Code								SEBEX	IPOHE	IPOHE	IPOHE	IPOHE	IPOLA
Rating Date								3-Jul-06	5-Jun-06	12-Jun-06	19-Jun-06	3-Jul-06	12-Jun-06
Rating Data Type								Control	Control	Control	Control	Control	Control
Rating Unit								%	%	%	%	%	%
Days After First/Last Applic.								47 14	19 0	26 7	33 0	47 14	26 7
Trt-Eval Interval								28 DA-B	19 DA-A	7 DA-B	14 DA-B	28 DA-B	7 DA-B
								7	8	9	10	11	12
10	Command	3	ME	12.8	FL OZ/A	PRE	A	97 a	5 a	80 bc	96 ab	99 a	85 b
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Grandstand R	3	SL	10.7	OZ/A	MPOST	B						
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
11	Command	3	ME	12.8	FL OZ/A	PRE	A	99 a	3 a	98 a	98 a	99 a	97 a
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Aim	2	EC	1	FL OZ/A	MPOST	B						
	Induce		L	4.8	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
12	Command	3	ME	12.8	FL OZ/A	PRE	A	99 a	5 a	98 a	99 a	99 a	98 a
	Permit	75	WG	1	OZ/A	MPOST	B						
	Super Wham	4	SC	4	QT/A	MPOST	B						
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
Standard Deviation								2.3	8.0	4.1	2.2	1.8	4.3
CV								2.56	145.85	5.27	2.49	1.88	5.52

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Mid Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-18
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	IPOLA 19-Jun-06 Control % 33 0 14 DA-B 13	IPOLA 3-Jul-06 Control % 47 14 28 DA-B 14	ECHCG 5-Jun-06 Control % 19 0 19 DA-A 15	ECHCG 12-Jun-06 Control % 26 7 7 DA-B 16	ECHCG 19-Jun-06 Control % 33 0 14 DA-B 17	ECHCG 3-Jul-06 Control % 47 14 28 DA-B 18
1	Treated Check							0 e	53 b	90 a	80 cd	75 d	96 a
	Command	3	ME	12.8	FL OZ/A	PRE	A						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
2	Command	3	ME	12.8	FL OZ/A	PRE	A	93 d	98 a	91 a	79 d	81 bcd	98 a
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Induce		L	4.8	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
3	Command	3	ME	12.8	FL OZ/A	PRE	A	97 ab	99 a	94 a	93 a	90 ab	99 a
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Super Wham	4	SC	3	QT/A	MPOST	B						
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
4	Command	3	ME	12.8	FL OZ/A	PRE	A	99 a	99 a	94 a	90 ab	89 ab	99 a
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Super Wham	4	SC	4	QT/A	MPOST	B						
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
5	IR5878	50	WG	2.1	OZ/A	MPOST	B	98 ab	99 a		69 e	76 cd	96 a
	Facet	75	DF	10.7	OZ/A	MPOST	B						
	Agri-Dex		L	1	QT/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
6	Grasp	2	SC	2	FL OZ/A	MPOST	B	94 cd	99 a		83 bcd	84 a-d	99 a
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
7	Command	3	ME	12.8	FL OZ/A	PRE	A	95 bcd	99 a	91 a	84 a-d	87 abc	97 a
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Facet	75	DF	10.7	OZ/A	MPOST	B						
	Agri-Dex		L	1	QT/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
8	Command	3	ME	12.8	FL OZ/A	PRE	A	93 d	99 a	95 a	83 bcd	94 a	99 a
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Permit	75	WG	0.25	OZ/A	MPOST	B						
	Induce		L	4.8	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
9	Command	3	ME	12.8	FL OZ/A	PRE	A	97 abc	99 a	93 a	83 bcd	83 a-d	99 a
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Permit	75	WG	0.33	OZ/A	MPOST	B						
	Induce		L	4.8	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						

Mississippi State University Delta Research and Extension Center
Mid Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-18
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	13	14	15	16	17	18
	Pest Code							IPOLA	IPOLA	ECHCG	ECHCG	ECHCG	ECHCG
	Rating Date							19-Jun-06	3-Jul-06	5-Jun-06	12-Jun-06	19-Jun-06	3-Jul-06
	Rating Data Type							Control	Control	Control	Control	Control	Control
	Rating Unit							%	%	%	%	%	%
	Days After First/Last Applic.							33 0	47 14	19 0	26 7	33 0	47 14
	Trt-Eval Interval							14 DA-B	28 DA-B	19 DA-A	7 DA-B	14 DA-B	28 DA-B
10	Command	3	ME	12.8	FL OZ/A	PRE	A	96 a-d	99 a	94 a	85 a-d	89 ab	99 a
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Grandstand R	3	SL	10.7	OZ/A	MPOST	B						
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
11	Command	3	ME	12.8	FL OZ/A	PRE	A	98 ab	99 a	95 a	89 abc	88 ab	99 a
	IR5878	50	WG	2.1	OZ/A	MPOST	B						
	Aim	2	EC	1	FL OZ/A	MPOST	B						
	Induce		L	4.8	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
12	Command	3	ME	12.8	FL OZ/A	PRE	A	99 a	99 a	94 a	91 ab	91 ab	99 a
	Permit	75	WG	1	OZ/A	MPOST	B						
	Super Wham	4	SC	4	QT/A	MPOST	B						
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B						
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C						
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C						
	Standard Deviation							2.1	1.6	3.4	6.0	6.9	2.8
	CV							2.33	1.69	3.69	7.11	8.08	2.86

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Mid Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-18
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	PANRA 5-Jun-06 Control % 19 0 19 DA-A	PANRA 19-Jun-06 Control % 33 0 14 DA-B	PANRA 3-Jul-06 Control % 47 14 28 DA-B	13-Sep-06 Yield bu/A
	Pest Code										
	Rating Date										
	Rating Data Type										
	Rating Unit										
	Days After First/Last Applic.										
	Trt-Eval Interval										
1	Treated Check							91 a	78 bcd	99 a	135 c
	Command	3	ME	12.8	FL OZ/A	PRE	A				
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C				
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C				
2	Command	3	ME	12.8	FL OZ/A	PRE	A	94 a	86 abc	99 a	172 b
	IR5878	50	WG	2.1	OZ/A	MPOST	B				
	Induce		L	4.8	FL OZ/A	MPOST	B				
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C				
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C				
3	Command	3	ME	12.8	FL OZ/A	PRE	A	94 a	93 a	99 a	164 b
	IR5878	50	WG	2.1	OZ/A	MPOST	B				
	Super Wham	4	SC	3	QT/A	MPOST	B				
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B				
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C				
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C				
4	Command	3	ME	12.8	FL OZ/A	PRE	A	95 a	95 a	99 a	179 ab
	IR5878	50	WG	2.1	OZ/A	MPOST	B				
	Super Wham	4	SC	4	QT/A	MPOST	B				
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B				
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C				
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C				
5	IR5878	50	WG	2.1	OZ/A	MPOST	B		66 d	99 a	170 b
	Facet	75	DF	10.7	OZ/A	MPOST	B				
	Agri-Dex		L	1	QT/A	MPOST	B				
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C				
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C				
6	Grasp	2	SC	2	FL OZ/A	MPOST	B		75 cd	99 a	190 a
	IR5878	50	WG	2.1	OZ/A	MPOST	B				
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B				
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C				
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C				
7	Command	3	ME	12.8	FL OZ/A	PRE	A	93 a	84 abc	99 a	165 b
	IR5878	50	WG	2.1	OZ/A	MPOST	B				
	Facet	75	DF	10.7	OZ/A	MPOST	B				
	Agri-Dex		L	1	QT/A	MPOST	B				
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C				
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C				
8	Command	3	ME	12.8	FL OZ/A	PRE	A	94 a	93 a	99 a	178 ab
	IR5878	50	WG	2.1	OZ/A	MPOST	B				
	Permit	75	WG	0.25	OZ/A	MPOST	B				
	Induce		L	4.8	FL OZ/A	MPOST	B				
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C				
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C				
9	Command	3	ME	12.8	FL OZ/A	PRE	A	93 a	73 cd	99 a	176 ab
	IR5878	50	WG	2.1	OZ/A	MPOST	B				
	Permit	75	WG	0.33	OZ/A	MPOST	B				
	Induce		L	4.8	FL OZ/A	MPOST	B				
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C				
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C				

Mississippi State University Delta Research and Extension Center
Mid Postemergence IR5878 Weed Control Programs

Trial ID: 06-WS-18
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	PANRA 5-Jun-06 Control % 19 0 19 DA-A	PANRA 19-Jun-06 Control % 33 0 14 DA-B	PANRA 3-Jul-06 Control % 47 14 28 DA-B	13-Sep-06 Yield bu/A
								19	20	21	24
10	Command	3	ME	12.8	FL OZ/A	PRE	A	95 a	85 abc	99 a	170 b
	IR5878	50	WG	2.1	OZ/A	MPOST	B				
	Grandstand R	3	SL	10.7	OZ/A	MPOST	B				
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B				
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C				
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C				
11	Command	3	ME	12.8	FL OZ/A	PRE	A	94 a	90 ab	99 a	175 ab
	IR5878	50	WG	2.1	OZ/A	MPOST	B				
	Aim	2	EC	1	FL OZ/A	MPOST	B				
	Induce		L	4.8	FL OZ/A	MPOST	B				
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C				
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C				
12	Command	3	ME	12.8	FL OZ/A	PRE	A	95 a	95 a	99 a	177 ab
	Permit	75	WG	1	OZ/A	MPOST	B				
	Super Wham	4	SC	4	QT/A	MPOST	B				
	Agri-Dex		L	19.2	FL OZ/A	MPOST	B				
	Clincher SF	2.38	EC	15	FL OZ/A	LPOST/PTFLD	C				
	Agri-Dex		L	19.2	FL OZ/A	LPOST/PTFLD	C				
Standard Deviation								2.7	8.5	0.0	11.0
CV								2.88	10.1	0.0	6.42

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Ricestar HT Programs in Clearfield Rice

Trial ID: 06-WS-19
Location: DREC

Objective:
To determine the effectiveness of Ricestar HT as a component of a Clearfield rice weed control program.

Conclusions:
Although Newpath is effective for control of most annual grasses, it can be inconsistent in controlling some species. Tank mixtures of Ricestar HT and Newpath could improve grass control in a Clearfield rice production system. This experiment tested different rates of Ricestar HT applied to 1- to 2-leaf rice (EPOST), in tank mixtures with other herbicides EPOST, or in sequential applications with Newpath [EPOST followed by applications to 4-leaf to 1-tiller rice (LPOST)]. Weed species evaluated included barnyardgrass (ECHCG), browntop millet (PANRA), and Amazon sprangletop (LEFPA). At 26 days after EPOST applications, Ricestar HT at 17 FL OZ/A tank-mixed with Newpath controlled ECHCG less than sequential applications of Ricestar HT at 24 FL OZ/A EPOST followed by Newpath LPOST. However, ECHCG control was at least 90% from all treatments. PANRA and LEFPA were controlled at least 91% at 26 days after EPOST applications. Differences in rice yield were detected, and these may have resulted from competition with grasses that emerged late in the season. Although the differences were not significant in every case, rice yields were generally lower when Ricestar HT was applied in tank mixture or in sequential applications with Newpath.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: CL131 **Description:** Clearfield variety
BBCH Scale: BRIC **Planting Date:** 15-May-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 71 F
Soil Moisture: Adequate **Emergence Date:** 23-May-06
Harvest Date: 13-Sep-06 **Harvest Equipment:** Mitsubishi VM-13
Harvested Width, Unit: 2.66 FT **Harvested Length, Unit:** 15 FT
% Standard Moisture: 12.0

Pest Description

Pest 1 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Barnyardgrass

Pest 2 Type: W **Code:** PANRA *Brachiaria ramosa*
Common Name: Browntop millet

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Complete Block
% Slope: 0.1 **Soil Drainage:** G Good

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	12-Jun-06	Aim	2	EC	1.67	FL OZ/A
2.	14-Jun-06	Urea (46:0:0)	46	GR	325	LB/A
3.	15-Jun-06	Karate Z	2.08	CS	2	FL OZ/A

Field Prep./Maintenance:
Tillage - Triple-K, 3-May-06 and 15-May-06.

Mississippi State University Delta Research and Extension Center
Ricestar HT Programs in Clearfield Rice

Trial ID: 06-WS-19
Location: DREC

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 0.5 **Unit:** MI

	Date	Type
1.	22-May-06	Flush
2.	6-Jun-06	Flush
3.	15-Jun-06	Flood
4.	5-Sep-06	Drain

Application Description

	A	B	C
Application Date:	19-May-06	31-May-06	12-Jun-06
Time of Day:	7:00 am	9:00 am	9:30 am
Application Method:	Broadcast	Broadcast	Broadcast
Application Timing:	DPRE	EPOST	LPOST
Application Placement:	Soil	Foliar	Foliar
Applied By:	JAB	JAB	JAB
Air Temperature, Unit:	68 F	76 F	94 F
% Relative Humidity:	54	70	49
Wind Velocity, Unit:	2 MPH	4 MPH	4 MPH
Wind Direction:	NW	NW	NW
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	67 F	79 F	78 F
Soil Moisture:	Adequate	Excessive	Adequate
% Cloud Cover:	50	95	5

Crop Stage At Each Application

	A	B	C
Crop 1 Code:	ORYSA	ORYSA	ORYSA
Stage Majority, Percent:		2 leaf	1 tiller
Stage Minimum, Percent:		2 leaf	1 tiller
Stage Maximum, Percent:		3 leaf	2 tiller
Height, Unit:		5 IN	9 IN
Height Minimum, Maximum:		4 6	7 9

Mississippi State University Delta Research and Extension Center
Ricestar HT Programs in Clearfield Rice

Trial ID: 06-WS-19
Location: DREC

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	ECHCG W	ECHCG W	ECHCG W
Stage Majority, Percent:		1 leaf	4 leaf
Stage Minimum, Percent:		1 leaf	3 leaf
Stage Maximum, Percent:		2 leaf	4 leaf
Height, Unit:		0.5 IN	4 IN
Height Minimum, Maximum:		0.5 0.5	3 4
Density, Unit:		3 FT2	5 FT2
Pest 2 Code, Disc., Scale:	PANRA W	PANRA W	PANRA W
Stage Majority, Percent:		1 leaf	3 leaf
Stage Minimum, Percent:		1 leaf	2 leaf
Stage Maximum, Percent:		2 leaf	3 leaf
Height, Unit:		0.5 IN	4 IN
Height Minimum, Maximum:		0.5 0.5	3 4
Density, Unit:		1 FT2	3 FT2

Application Equipment

	A	B	C
Appl. Equipment:	CO2 backpack	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	38 PSI	24 PSI	24 PSI
Nozzle Type:	AI	DG	DG
Nozzle Size:	110015VS	11002VS	110015VS
Nozzle Spacing, Unit:	20 IN	20 IN	16 IN
Nozzles/Row:	3	3	4
Boom Length, Unit:	60 IN	60 IN	64 IN
Boom Height, Unit:	16 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	Water	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

Date	**By**	**Notes**
31-May-06	JAB	Very little grass emerged at application timing B. Treatments applied based on rice growth stage.

Mississippi State University Delta Research and Extension Center
Ricestar HT Programs in Clearfield Rice

Trial ID: 06-WS-19
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	4	5	6	7	8	9
	Pest Code								ECHCG	ECHCG	ECHCG	ECHCG	PANRA	PANRA
	Rating Date							7-Jun-06	31-May-06	7-Jun-06	26-Jun-06	10-Jul-06	31-May-06	7-Jun-06
	Rating Data Type							Rice Injury	Control	Control	Control	Control	Control	Control
	Rating Unit							%	%	%	%	%	%	%
	Days After First/Last Applic.							19 7	12 0	19 7	38 14	52 28	12 0	19 7
	Trt-Eval Interval							7 DA-B	12 DA-A	7 DA-B	26 DA-B	40 DA-B	12 DA-A	7 DA-B
1	Nontreated							0 a	0 b	0 b	0 c	0 c	0 b	0 b
2	Stam M-4	4	SL	4	QT/A	EPOST	B	3 a		97 a	95 ab	88 b		97 a
	Facet	75	DF	0.5	LB/A	EPOST	B							
	Permit	75	WG	1	OZ/A	EPOST	B							
3	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	B	0 a		96 a	93 ab	86 b		96 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B							
4	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	B	2 a		97 a	92 ab	86 b		97 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B							
5	Command	3	ME	1.33	PT/A	DPRE	A	1 a	94 a	97 a	94 ab	94 ab	93 a	97 a
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B							
6	Command	3	ME	1.33	PT/A	DPRE	A	1 a	93 a	96 a	95 ab	94 ab	94 a	97 a
	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B							
7	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	B	2 a		95 a	90 b	88 b		96 a
	Newpath	2	AS	4	FL OZ/A	EPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B							
8	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	B	2 a		95 a	93 ab	85 b		95 a
	Newpath	2	AS	4	FL OZ/A	EPOST	B							
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B							
9	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	B	0 a		97 a	95 ab	97 a		96 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B							
	Newpath	2	AS	4	FL OZ/A	LPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C							
10	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	B	3 a		97 a	96 a	99 a		97 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B							
	Newpath	2	AS	4	FL OZ/A	LPOST	C							
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C							
	Standard Deviation							1.4	2.5	2.8	3.1	5.3	1.9	2.0
	CV							121.95	4.03	3.24	3.74	6.52	3.0	2.35

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Ricestar HT Programs in Clearfield Rice

Trial ID: 06-WS-19
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	10	11	12	13	16
Pest Code								PANRA	PANRA	LEFPA	LEFPA	
Rating Date								26-Jun-06	10-Jul-06	26-Jun-06	10-Jul-06	13-Sep-06
Rating Data Type								Control	Control	Control	Control	Yield
Rating Unit								%	%	%	%	bu/A
Days After First/Last Applic.								38 14	52 28	38 14	52 28	
Trt-Eval Interval								26 DA-B	40 DA-B	26 DA-B	40 DA-B	
1	Nontreated							0 c	0 b	0 c	0 c	101 d
2	Stam M-4	4	SL	4	QT/A	EPOST	B	97 ab	99 a	94 ab	98 a	150 ab
	Facet	75	DF	0.5	LB/A	EPOST	B					
	Permit	75	WG	1	OZ/A	EPOST	B					
3	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	B	97 ab	98 a	95 ab	92 b	137 c
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B					
4	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	B	97 ab	99 a	95 ab	97 a	152 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B					
5	Command	3	ME	1.33	PT/A	DPRE	A	98 a	99 a	95 ab	99 a	144 abc
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	B					
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B					
6	Command	3	ME	1.33	PT/A	DPRE	A	98 a	99 a	96 a	99 a	149 ab
	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	B					
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B					
7	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	B	98 a	99 a	91 b	99 a	141 bc
	Newpath	2	AS	4	FL OZ/A	EPOST	B					
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B					
8	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	B	95 b	99 a	97 a	98 a	134 c
	Newpath	2	AS	4	FL OZ/A	EPOST	B					
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B					
9	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	B	97 ab	99 a	95 ab	99 a	137 c
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B					
	Newpath	2	AS	4	FL OZ/A	LPOST	C					
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C					
10	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	B	97 ab	99 a	96 ab	99 a	140 bc
	Agri-Dex		L	19.2	FL OZ/A	EPOST	B					
	Newpath	2	AS	4	FL OZ/A	LPOST	C					
	Agri-Dex		L	19.2	FL OZ/A	LPOST	C					
Standard Deviation								1.4	0.6	2.8	2.2	7.3
CV								1.63	0.71	3.25	2.52	5.24

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Ricestar HT Programs in Conventional Rice

Trial ID: 06-WS-20
Location: DREC

Objective:
To evaluate Ricestar HT as a component of a conventional rice weed control program.

Conclusions:
This experiment was designed to compare Ricestar HT with Clincher SF when applied to 1- to 2-leaf rice (EPOST). Weeds evaluated included barnyardgrass (ECHCG) and browntop millet (PANRA). By 22 days after application, no treatment injured rice >6%. Although minor differences in grass control were detected, all treatments controlled ECHCG and PANRA at least 89% 22 days after application. Rice yields were equivalent following all treatments and ranged from 175 to 192 bu/A.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: Cocodrie **Description:** Conventional variety
BBCH Scale: BRIC **Planting Date:** 15-May-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 72 F
Soil Moisture: Adequate **Emergence Date:** 23-May-06
Harvest Date: 13-Sep-06 **Harvest Equipment:** Mitsubishi VM-13
Harvested Width, Unit: 2.66 FT **Harvested Length, Unit:** 15 FT
% Standard Moisture: 12.0

Pest Description

Pest 1 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Barnyardgrass

Pest 2 Type: W **Code:** PANRA *Brachiaria ramosa*
Common Name: Browntop millet

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Complete Block
% Slope: 0.1 **Soil Drainage:** G Good

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	12-May-06	Aim	2	EC	1.67	FL OZ/A
2.	14-Jun-06	Urea (46:0:0)	46	GR	325	LB/A
3.	15-Jun-06	Karate Z	2.08	CS	2	FL OZ/A

Field Prep./Maintenance:
Tillage - Triple-K, 3-May-06 and 15-May-06.

Mississippi State University Delta Research and Extension Center
Ricestar HT Programs in Conventional Rice

Trial ID: 06-WS-20
Location: DREC

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 0.5 **Unit:** MI

	Date	Type
1.	22-May-06	Flush
2.	6-Jun-06	Flush
3.	15-Jun-06	Flood
4.	5-Sep-06	Drain

Application Description

	A
Application Date:	5-Jun-06
Time of Day:	9:30 am
Application Method:	Broadcast
Application Timing:	EPOST
Application Placement:	Foliar
Applied By:	JAB
Air Temperature, Unit:	89 F
% Relative Humidity:	50
Wind Velocity, Unit:	3 MPH
Wind Direction:	NE
Dew Presence (Y/N):	N
Soil Temperature, Unit:	78 F
Soil Moisture:	Adequate
% Cloud Cover:	5

Crop Stage At Each Application

	A
Crop 1 Code:	ORYSA
Stage Majority, Percent:	3 leaf
Stage Minimum, Percent:	3 leaf
Stage Maximum, Percent:	4 leaf
Height, Unit:	7 IN
Height Minimum, Maximum:	6 8

Mississippi State University Delta Research and Extension Center
Ricestar HT Programs in Conventional Rice

Trial ID: 06-WS-20
Location: DREC

Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	ECHCG W
Stage Majority, Percent:	2 leaf
Stage Minimum, Percent:	1 leaf
Stage Maximum, Percent:	3 leaf
Height, Unit:	2 IN
Height Minimum, Maximum:	2 3
Density, Unit:	4 FT2
Pest 2 Code, Disc., Scale:	PANRA W
Stage Majority, Percent:	3 leaf
Stage Minimum, Percent:	1 leaf
Stage Maximum, Percent:	3 leaf
Height, Unit:	2 IN
Height Minimum, Maximum:	1 2
Density, Unit:	4 FT2

Application Equipment

	A
Appl. Equipment:	CO2 backpack
Operating Pressure, Unit:	38 PSI
Nozzle Type:	DG
Nozzle Size:	110015VS
Nozzle Spacing, Unit:	16 IN
Nozzles/Row:	4
Boom Length, Unit:	64 IN
Boom Height, Unit:	18 IN
Ground Speed, Unit:	3 MPH
Carrier:	Water
Spray Volume, Unit:	15 GPA

Mississippi State University Delta Research and Extension Center
Ricestar HT Programs in Conventional Rice

Trial ID: 06-WS-20
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6
	Pest Code										ECHCG	ECHCG	ECHCG
	Rating Date							12-Jun-06	19-Jun-06	27-Jun-06	12-Jun-06	19-Jun-06	27-Jun-06
	Rating Data Type							Rice Injury	Rice Injury	Rice Injury	Control	Control	Control
	Rating Unit							%	%	%	%	%	%
	Days After First/Last Applic.							7 7	14 14	22 22	7 7	14 14	22 22
	Trt-Eval Interval							7 DA-A	14 DA-A	22 DA-A	7 DA-A	14 DA-A	22 DA-A
1	Nontreated Check							0 b	0 e	0 b	0 b	0 d	0 d
2	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A	0 b	1 de	0 b	86 a	90 bc	95 ab
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A						
3	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	A	0 b	1 de	0 b	93 a	93 abc	97 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A						
4	Clincher SF	2.38	EC	13	FL OZ/A	EPOST	A	0 b	0 e	0 b	90 a	97 ab	97 a
	Agri-Dex		L	48	FL OZ/A	EPOST	A						
5	Clincher SF	2.38	EC	15	FL OZ/A	EPOST	A	0 b	0 e	0 b	89 a	90 bc	97 a
	Agri-Dex		L	48	FL OZ/A	EPOST	A						
6	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A	1 b	3 cd	2 b	91 a	95 ab	96 ab
	Regiment	80	WP	0.5	OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
7	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	A	2 b	1 de	0 b	91 a	97 ab	97 a
	Regiment	80	WP	0.5	OZ/A	EPOST	A						
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A						
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A						
8	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A	1 b	6 b	6 a	89 a	91 abc	93 abc
	Grasp	2	SC	2.3	FL OZ/A	EPOST	A						
	Agri-Dex		L	48	FL OZ/A	EPOST	A						
9	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	A	1 b	8 a	6 a	90 a	90 abc	96 ab
	Grasp	2	SC	2.3	FL OZ/A	EPOST	A						
	Agri-Dex		L	48	FL OZ/A	EPOST	A						
10	Clincher SF	2.38	EC	13	FL OZ/A	EPOST	A	0 b	5 b	5 a	90 a	91 abc	90 bc
	Grasp	2	SC	2.3	FL OZ/A	EPOST	A						
	Agri-Dex		L	48	FL OZ/A	EPOST	A						
11	Clincher SF	2.38	EC	15	FL OZ/A	EPOST	A	1 b	4 bc	5 a	86 a	86 c	89 c
	Grasp	2	SC	2.3	FL OZ/A	EPOST	A						
	Agri-Dex		L	48	FL OZ/A	EPOST	A						
12	Command	3	ME	1.33	PT/A	EPOST	A	0 b	0 e	0 b	91 a	96 ab	98 a
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A						
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A						
13	Command	3	ME	1.33	PT/A	EPOST	A	0 b	0 e	0 b	90 a	90 abc	96 ab
	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	A						
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A						
14	Command	3	ME	1.33	PT/A	EPOST	A	5 a	0 e	0 b	89 a	98 a	97 a
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A						
	Aim	2	EC	1	FL OZ/A	EPOST	A						
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A						
15	Command	3	ME	1.33	PT/A	EPOST	A	5 a	1 de	0 b	89 a	95 ab	97 a
	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	A						
	Aim	2	EC	1	FL OZ/A	EPOST	A						
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A						
16	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A	0 b	1 de	0 b	86 a	93 abc	94 abc
	Facet	75	DF	0.5	LB/A	EPOST	A						
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A						
17	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	A	1 b	1 de	0 b	90 a	91 abc	97 a
	Facet	75	DF	0.5	LB/A	EPOST	A						
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A						
	Standard Deviation							0.9	1.5	1.3	5.1	4.8	4.0
	CV							103.4	88.57	95.8	6.01	5.54	4.49

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Ricestar HT Programs in Conventional Rice

Trial ID: 06-WS-20
Location: DREC

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	PANRA 12-Jun-06 Control % 7 7 7 DA-A 7	PANRA 19-Jun-06 Control % 14 14 14 DA-A 8	PANRA 27-Jun-06 Control % 22 22 22 DA-A 9	13-Sep-06 Yield bu/A 12
1	Nontreated Check							0 c	0 d	0 c	154 b
2	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A	88 ab	95 ab	98 a	180 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
3	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	A	93 a	95 ab	98 a	182 a
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
4	Clincher SF	2.38	EC	13	FL OZ/A	EPOST	A	89 ab	97 a	97 ab	178 a
	Agri-Dex		L	48	FL OZ/A	EPOST	A				
5	Clincher SF	2.38	EC	15	FL OZ/A	EPOST	A	90 ab	96 ab	98 a	178 a
	Agri-Dex		L	48	FL OZ/A	EPOST	A				
6	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A	90 ab	97 ab	97 ab	186 a
	Regiment	80	WP	0.5	OZ/A	EPOST	A				
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A				
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A				
7	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	A	90 ab	94 abc	96 ab	190 a
	Regiment	80	WP	0.5	OZ/A	EPOST	A				
	Kinetic HV		SF	4.8	FL OZ/A	EPOST	A				
	Urea-Ammonium nitrate		L	38.4	FL OZ/A	EPOST	A				
8	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A	89 ab	93 abc	93 b	188 a
	Grasp	2	SC	2.3	FL OZ/A	EPOST	A				
	Agri-Dex		L	48	FL OZ/A	EPOST	A				
9	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	A	89 ab	89 c	93 b	184 a
	Grasp	2	SC	2.3	FL OZ/A	EPOST	A				
	Agri-Dex		L	48	FL OZ/A	EPOST	A				
10	Clincher SF	2.38	EC	13	FL OZ/A	EPOST	A	91 ab	91 bc	97 ab	192 a
	Grasp	2	SC	2.3	FL OZ/A	EPOST	A				
	Agri-Dex		L	48	FL OZ/A	EPOST	A				
11	Clincher SF	2.38	EC	15	FL OZ/A	EPOST	A	91 ab	91 bc	94 b	190 a
	Grasp	2	SC	2.3	FL OZ/A	EPOST	A				
	Agri-Dex		L	48	FL OZ/A	EPOST	A				
12	Command	3	ME	1.33	PT/A	EPOST	A	91 ab	97 a	98 a	187 a
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A				
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
13	Command	3	ME	1.33	PT/A	EPOST	A	93 a	95 ab	98 a	176 a
	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	A				
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
14	Command	3	ME	1.33	PT/A	EPOST	A	90 ab	98 a	98 a	179 a
	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A				
	Aim	2	EC	1	FL OZ/A	EPOST	A				
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
15	Command	3	ME	1.33	PT/A	EPOST	A	91 ab	97 ab	98 a	180 a
	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	A				
	Aim	2	EC	1	FL OZ/A	EPOST	A				
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
16	Ricestar HT	0.58	EC	17	FL OZ/A	EPOST	A	86 b	97 a	97 ab	181 a
	Facet	75	DF	0.5	LB/A	EPOST	A				
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
17	Ricestar HT	0.58	EC	24	FL OZ/A	EPOST	A	91 ab	93 abc	97 ab	175 a
	Facet	75	DF	0.5	LB/A	EPOST	A				
	Agri-Dex		L	19.2	FL OZ/A	EPOST	A				
Standard Deviation								3.4	3.5	2.4	9.9
CV								3.96	3.9	2.69	5.48

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Newpath Plus Prowl H2O Combinations

Trial ID: 06-WS-22
Location: DREC - Red Rice Area

Objective:
To evaluate application rates of Prowl H2O for rice tolerance and weed control in a Clearfield rice production system.

Conclusions:
This experiment tested the rice tolerance to Prowl H2O and the effectiveness of Prowl H2O in a Clearfield rice production system. Prowl H2O was applied in tank mixture with Newpath to 1-leaf rice (VEPOST) or in tank mixture with Newpath VEPOST and followed by a second application of Newpath 10 days prior to flooding (10 d PRFLD). Weed species evaluated included barnyardgrass (ECHCG), red rice (ORYSA), and Amazon sprangletop (LEFPA). Minor rice injury was observed 7 days after VEPOST application. All treatments controlled ECHCG at least 94% 13 days after 10 d PRFLD application. At the same evaluation, ORYSA control from Prowl H2O plus Newpath followed by Newpath was equivalent to that from two applications of Newpath. The same trend was observed late in the season (02-Aug-06). However, at the 02-Aug-06 evaluation, ORYSA control from single applications of Prowl H2O plus Newpath was no more than 64%. Prowl H2O was required to control LEFPA >85% at 28 days after 10 d PRFLD application. By the late-season evaluation, LEFPA control from treatments that did not contain Prowl H2O was not greater than 46%. With the exception of Prowl H2O at 25.3 FL OZ/A plus Newpath, rice yields following all treatments containing Prowl H2O were higher than those following Newpath-only treatments. Differences in rice yields were attributed mainly to LEFPA competition. Prowl H2O is safe for application to Clearfield rice and would be required for high yields in areas where LEFPA is troublesome.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: CL131 **Description:** Clearfield variety
BBCH Scale: BRIC **Planting Date:** 18-May-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 73 F
Soil Moisture: Adequate **Emergence Date:** 25-May-06
Harvest Date: 27-Sep-06 **Harvest Equipment:** Mitsubishi VM-13
Harvested Width, Unit: 2.66 FT **Harvested Length, Unit:** 15 FT
% Standard Moisture: 12.0

Pest Description

Pest 1 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Barnyardgrass

Pest 2 Type: W **Code:** ORYSA *Oryza sativa*
Common Name: Red rice

Pest 3 Type: W **Code:** LEFPA *Leptochloa panicoides*
Common Name: Amazon sprangletop

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Stale seedbed
Replications: 4 **Study Design:** Randomized Complete Block
% Slope: 0.1 **Soil Drainage:** F Fair

Mississippi State University Delta Research and Extension Center
Newpath Plus Prowl H2O Combinations

Trial ID: 06-WS-22
Location: DREC - Red Rice Area

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	16-May-06	Glystar Plus	4	L	32	FL OZ/A
2.	12-Jun-06	Aim	2	EC	1.67	FL OZ/A
3.	15-Jun-06	Karate Z	2.08	EC	2	FL OZ/A
4.	15-Jun-06	Urea (46:0:0)	46	GR	325	LB/A

Comment: Aim application on 12-Jun-06 was made to control hemp sesbania so that the experiment could be harvested.

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 0.5 **Unit:** MI

	Date	Type
1.	23-May-06	Flush
2.	7-Jun-06	Flush
3.	16-Jun-06	Flood
4.	5-Sep-06	Drain

Application Description

	A	B	C
Application Date:	30-May-06	7-Jun-06	19-Jul-06
Time of Day:	8:00 am	2:00 pm	8:00 am
Application Method:	Broadcast	Broadcast	Broadcast
Application Timing:	VEPOST	10d PRFLD	PD+14
Application Placement:	Foliar	Foliar	Foliar
Applied By:	JAB	JAB	JAB, LCV
Air Temperature, Unit:	75 F	96 F	89 F
% Relative Humidity:	94	50	78
Wind Velocity, Unit:	0 MPH	2 MPH	0 MPH
Wind Direction:		W	
Dew Presence (Y/N):	Y	N	Y
Soil Temperature, Unit:	72 F		
Soil Moisture:	Excessive	Excessive	Flood
% Cloud Cover:	100	10	0

Mississippi State University Delta Research and Extension Center
Newpath Plus Prowl H2O Combinations

Trial ID: 06-WS-22
Location: DREC - Red Rice Area

Crop Stage At Each Application

	A	B	C
Crop 1 Code:	ORYSA	ORYSA	ORYSA
Stage Majority, Percent:	1 leaf	3 leaf	PD+14
Stage Minimum, Percent:	1 leaf	3 leaf	PD+14
Stage Maximum, Percent:	2 leaf	4 leaf	PD+14
Height, Unit:	3 IN	8 IN	28 IN
Height Minimum, Maximum:	2 3	6 8	26 30

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	ECHCG W	ECHCG W	ECHCG W
Stage Majority, Percent:	1 leaf	2 leaf	
Stage Minimum, Percent:	1 leaf	2 leaf	
Stage Maximum, Percent:	1 leaf	3 leaf	
Height, Unit:	0.25 IN	2 IN	
Height Minimum, Maximum:	0.25 0.5	2 3	
Density, Unit:	18 FT2	1 FT2	
Pest 2 Code, Disc., Scale:	ORYSA W	ORYSA W	ORYSA W
Stage Majority, Percent:	1 leaf	2 leaf	8 leaf
Stage Minimum, Percent:	1 leaf	2 leaf	8 leaf
Stage Maximum, Percent:	2 leaf	3 leaf	9 leaf
Height, Unit:	2 IN	4 IN	24 IN
Height Minimum, Maximum:	1 2	3 4	24 26
Density, Unit:	12 FT2	2 FT2	0.5 FT2
Pest 3 Code, Disc., Scale:	LEFPA W	LEFPA W	LEFPA W
Stage Majority, Percent:		2 leaf	Head
Stage Minimum, Percent:		2 leaf	Head
Stage Maximum, Percent:		3 leaf	Head
Height, Unit:		2 IN	27 IN
Height Minimum, Maximum:		2 3	26 30
Density, Unit:		4 FT2	10 FT2

Application Equipment

	A	B	C
Appl. Equipment:	CO2 backpack	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	34 PSI	29 PSI	24 PSI
Nozzle Type:	XR	XR	DG
Nozzle Size:	110015VS	110015VS	11001VS
Nozzle Spacing, Unit:	20 IN	16 IN	16 IN
Boom Length, Unit:	60 IN	64 IN	64 IN
Boom Height, Unit:	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	2 MPH	2 MPH
Carrier:	Water	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

Date	**By**	**Notes**
6-Jun-06	JAB	Rice injury was reduced stand.

Mississippi State University Delta Research and Extension Center
Newpath Plus Prowl H2O Combinations

Trial ID: 06-WS-22
Location: DREC - Red Rice Area

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	6-Jun-06 Rice Injury % 7 7 7 DA-A	20-Jun-06 Rice Injury % 21 13 13 DA-B	5-Jul-06 Rice Injury % 36 28 28 DA-B	ECHCG 6-Jun-06 Control % 7 7 7 DA-A	ECHCG 20-Jun-06 Control % 21 13 13 DA-B	ECHCG 5-Jul-06 Control % 36 28 28 DA-B	ECHCG 2-Aug-06 Control % 64 14 14 DA-C
								1	2	3	5	6	7	8
1	Nontreated							0 d	0 a	0 a	0 d	0 d	0 c	0 d
2	Newpath	2	AS	6	FL OZ/A	VEPOST	A	0 d	1 a	0 a	94 bc	94 c	95 b	95 c
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
3	Newpath	2	AS	6	FL OZ/A	VEPOST	A	0 d	0 a	0 a	94 bc	95 bc	96 b	95 c
	Prowl H2O	3.8	CS	25.3	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
4	Newpath	2	AS	6	FL OZ/A	VEPOST	A	0 d	0 a	0 a	98 a	98 a	99 a	99 a
	Prowl H2O	3.8	CS	33.7	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
5	Newpath	2	AS	6	FL OZ/A	VEPOST	A	2 bcd	2 a	1 a	96 abc	95 bc	98 a	95 c
	Prowl H2O	3.8	CS	42	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
6	Newpath	2	AS	6	FL OZ/A	VEPOST	A	6 a	1 a	0 a	98 a	98 a	98 a	99 a
	Prowl H2O	3.8	CS	50.5	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
7	Newpath	2	AS	6	FL OZ/A	VEPOST	A	6 a	2 a	0 a	96 abc	96 abc	98 a	98 b
	Prowl H2O	3.8	CS	67.4	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
8	Newpath	2	AS	6	FL OZ/A	VEPOST	A	0 d	1 a	0 a	93 c	99 a	99 a	99 a
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
	Newpath	2	AS	6	FL OZ/A	10 d PRFLD	B							
	Agri-Dex		L	19.2	FL OZ/A	10 d PRFLD	B							
9	Newpath	2	AS	6	FL OZ/A	VEPOST	A	0 d	0 a	0 a	94 bc	97 ab	99 a	99 a
	Prowl H2O	3.8	CS	25.3	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
	Newpath	2	AS	6	FL OZ/A	10 d PRFLD	B							
	Agri-Dex		L	19.2	FL OZ/A	10 d PRFLD	B							
10	Newpath	2	AS	6	FL OZ/A	VEPOST	A	1 cd	0 a	0 a	94 bc	99 a	99 a	99 a
	Prowl H2O	3.8	CS	33.7	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
	Newpath	2	AS	6	FL OZ/A	10 d PRFLD	B							
	Agri-Dex		L	19.2	FL OZ/A	10 d PRFLD	B							
11	Newpath	2	AS	6	FL OZ/A	VEPOST	A	5 abc	2 a	2 a	97 ab	99 a	99 a	99 a
	Prowl H2O	3.8	CS	42	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
	Newpath	2	AS	6	FL OZ/A	10 d PRFLD	B							
	Agri-Dex		L	19.2	FL OZ/A	10 d PRFLD	B							
12	Newpath	2	AS	6	FL OZ/A	VEPOST	A	4 a-d	1 a	1 a	98 a	99 a	99 a	99 a
	Prowl H2O	3.8	CS	50.5	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
	Newpath	2	AS	6	FL OZ/A	10 d PRFLD	B							
	Agri-Dex		L	19.2	FL OZ/A	10 d PRFLD	B							
13	Newpath	2	AS	6	FL OZ/A	VEPOST	A	5 ab	2 a	0 a	99 a	99 a	99 a	99 a
	Prowl H2O	3.8	CS	67.4	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
	Newpath	2	AS	6	FL OZ/A	10 d PRFLD	B							
	Agri-Dex		L	19.2	FL OZ/A	10 d PRFLD	B							
14	Newpath	2	AS	6	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A	0 d	0 a	0 a	96 abc	98 a	98 a	99 a
	Newpath	2	AS	6	FL OZ/A	10 d PRFLD	B							
	Agri-Dex		L	19.2	FL OZ/A	10 d PRFLD	B							
	Beyond	1	AS	5	FL OZ/A	PD+14 d	C							
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	C							
Standard Deviation								2.3	1.3	0.7	2.4	1.8	1.1	0.5
CV								111.83	176.89	322.65	2.65	2.04	1.24	0.59

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Newpath Plus Prowl H2O Combinations

Trial ID: 06-WS-22
Location: DREC - Red Rice Area

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	ORYSA 6-Jun-06 Control % 7 7 7 DA-A 9	ORYSA 20-Jun-06 Control % 21 13 13 DA-B 10	ORYSA 5-Jul-06 Control % 36 28 28 DA-B 11	ORYSA 2-Aug-06 Control % 64 14 14 DA-C 12	LEFPA 5-Jul-06 Control % 36 28 28 DA-B 13	LEFPA 2-Aug-06 Control % 64 14 14 DA-C 14	27-Sep-06 Yield bu/A 17
1	Nontreated							0 e	0 d	0 e	0 c	0 f	0 f	8 f
2	Newpath	2	AS	6	FL OZ/A	VEPOST	A	86 abc	81 c	80 d	54 b	53 e	18 e	48 e
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
3	Newpath	2	AS	6	FL OZ/A	VEPOST	A	81 d	84 c	90 abc	64 b	86 cd	49 d	103 d
	Prowl H2O	3.8	CS	25.3	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
4	Newpath	2	AS	6	FL OZ/A	VEPOST	A	90 a	90 ab	90 abc	64 b	90 abc	69 c	123 abc
	Prowl H2O	3.8	CS	33.7	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
5	Newpath	2	AS	6	FL OZ/A	VEPOST	A	85 bcd	86 bc	86 c	58 b	94 ab	65 c	116 bcd
	Prowl H2O	3.8	CS	42	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
6	Newpath	2	AS	6	FL OZ/A	VEPOST	A	86 abc	91 ab	89 bc	56 b	88 bcd	80 abc	112 cd
	Prowl H2O	3.8	CS	50.5	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
7	Newpath	2	AS	6	FL OZ/A	VEPOST	A	85 bcd	86 bc	91 abc	61 b	91 abc	78 bc	128 abc
	Prowl H2O	3.8	CS	67.4	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
8	Newpath	2	AS	6	FL OZ/A	VEPOST	A	85 bcd	95 a	93 ab	89 a	86 cd	45 d	102 d
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
	Newpath	2	AS	6	FL OZ/A	10 d PRFLD	B							
	Agri-Dex		L	19.2	FL OZ/A	10 d PRFLD	B							
9	Newpath	2	AS	6	FL OZ/A	VEPOST	A	86 abc	92 a	95 a	95 a	91 abc	64 c	124 abc
	Prowl H2O	3.8	CS	25.3	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
	Newpath	2	AS	6	FL OZ/A	10 d PRFLD	B							
	Agri-Dex		L	19.2	FL OZ/A	10 d PRFLD	B							
10	Newpath	2	AS	6	FL OZ/A	VEPOST	A	84 cd	95 a	95 a	90 a	93 abc	86 ab	125 abc
	Prowl H2O	3.8	CS	33.7	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
	Newpath	2	AS	6	FL OZ/A	10 d PRFLD	B							
	Agri-Dex		L	19.2	FL OZ/A	10 d PRFLD	B							
11	Newpath	2	AS	6	FL OZ/A	VEPOST	A	88 abc	95 a	95 a	95 a	94 ab	91 ab	128 abc
	Prowl H2O	3.8	CS	42	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
	Newpath	2	AS	6	FL OZ/A	10 d PRFLD	B							
	Agri-Dex		L	19.2	FL OZ/A	10 d PRFLD	B							
12	Newpath	2	AS	6	FL OZ/A	VEPOST	A	89 ab	95 a	95 a	90 a	94 ab	90 ab	135 ab
	Prowl H2O	3.8	CS	50.5	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
	Newpath	2	AS	6	FL OZ/A	10 d PRFLD	B							
	Agri-Dex		L	19.2	FL OZ/A	10 d PRFLD	B							
13	Newpath	2	AS	6	FL OZ/A	VEPOST	A	90 a	95 a	95 a	93 a	95 a	95 a	138 a
	Prowl H2O	3.8	CS	67.4	FL OZ/A	VEPOST	A							
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
	Newpath	2	AS	6	FL OZ/A	10 d PRFLD	B							
	Agri-Dex		L	19.2	FL OZ/A	10 d PRFLD	B							
14	Newpath	2	AS	6	FL OZ/A	VEPOST	A	89 ab	91 ab	93 ab	95 a	81 d	46 d	101 d
	Agri-Dex		L	19.2	FL OZ/A	VEPOST	A							
	Newpath	2	AS	6	FL OZ/A	10 d PRFLD	B							
	Agri-Dex		L	19.2	FL OZ/A	10 d PRFLD	B							
	Beyond	1	AS	5	FL OZ/A	PD+14 d	C							
	Agri-Dex		L	19.2	FL OZ/A	PD+14 d	C							
Standard Deviation								2.8	3.3	3.5	11.1	4.5	10.4	12.4
CV								3.52	3.89	4.14	15.53	5.5	16.69	11.67

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Rice Tolerance to Midseason Regiment Applications

Trial ID: 06-WS-23
Location: Shaw, MS

Objective:
To determine the rice response to Regiment applications made after the beginning of reproductive growth.

Conclusions:
Regiment is currently labeled for application to rice from the 3-leaf growth stage until internode elongation. This experiment determined the rice tolerance to late-season applications of Regiment. Regiment at 0.5 OZ/A (labeled rate) and 1OZ/A (twice the labeled rate) was applied to rice at 0.5-in and 2-in internode elongation. Although this experiment has only been conducted for one year, applications of Regiment after internode elongation did not reduce rice yield compared with the nontreated check.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: Cheniere **Description:** Conventional variety
BBCH Scale: BRIC **Planting Date:** 17-Apr-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 7.5 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 80 F
Soil Moisture: Adequate **Emergence Date:** 29-Apr-06
Harvest Date: 8-Sep-06 **Harvest Equipment:** Mitsubishi VM-13
Harvested Width, Unit: 2.66 FT **Harvested Length, Unit:** 15 FT
% Standard Moisture: 12.0

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Complete Block
% Slope: 0.1 **Soil Drainage:** G Good

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	9-May-06	Stam	4	EC	4	QT/A
2.	9-May-06	Facet	75	DF	0.5	LB/A
3.	9-May-06	Prowl H2O	3.8	CS	2	PT/A
4.	4-Jun-06	Aim	2	EC	1	FL OZ/A
5.	4-Jun-06	Permit	75	DG	0.75	OZ/A
6.	4-Jun-06	Stam	4	EC	3	QT/A
7.	4-Jun-06	Karate Z	2.08	EC	2	FL OZ/A
8.	8-Jun-06	Urea (46:0:0)	46	GR	325	LB/A

Soil Description

NA

Moisture Conditions

Overall Moisture Conditions: NA
Closest Weather Station: NA

	Date	Type
1.	8-Jun-05	Flood
2.	25-Aug-06	Drain

Mississippi State University Delta Research and Extension Center
Rice Tolerance to Midseason Regiment Applications

Trial ID: 06-WS-23
Location: Shaw, MS

Application Description

	A	B
Application Date:	26-Jun-06	12-Jul-06
Time of Day:	2:00 pm	10:00 am
Application Method:	Broadcast	Broadcast
Application Timing:	0.5-in IE	2-in IE
Application Placement:	Foliar	Foliar
Applied By:	JAB, LCV	JAB, LCV
Air Temperature, Unit:	92 F	94 F
% Relative Humidity:	50	68
Wind Velocity, Unit:	4 MPH	4 MPH
Wind Direction:	NW	SW
Dew Presence (Y/N):	N	N
Soil Moisture:	Flood	Flood
% Cloud Cover:	40	25

Crop Stage At Each Application

	A	B
Crop 1 Code:	ORYSA	ORYSA
Stage Majority, Percent:	.5-in IE	2-in IE
Stage Minimum, Percent:	.5-in IE	2-in IE
Stage Maximum, Percent:	.5-in IE	2-in IE
Height, Unit:	17 IN	25
Height Minimum, Maximum:	15 18	24 26

Application Equipment

	A	B
Appl. Equipment:	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	24 PSI	25 PSI
Nozzle Type:	TT	TT
Nozzle Size:	11001	11001
Nozzle Spacing, Unit:	16 IN	16 IN
Boom Length, Unit:	64 IN	64 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	2 MPH	2 MPH
Carrier:	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA

Mississippi State University Delta Research and Extension Center
Rice Tolerance to Midseason Regiment Applications

Trial ID: 06-WS-23
Location: Shaw, MS

Crop Name								Rice	Rice	Rice	Rice
Rating Date								5-Jul-06	12-Jul-06	26-Jul-06	8-Sep-06
Rating Data Type								Rice Injury	Rice Injury	Rice Injury	Yield
Rating Unit								%	%	%	bu/A
Days After First/Last Applic.								9 9	16 0	30 14	
Trt-Eval Interval								9 DA-A	16 DA-A	14 DA-B	
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	6
1	Nontreated							0 a	0 a	0 a	200 b
2	Regiment	80	WP	0.5	OZ/A	0.5-in IE	A	0 a	0 a	0 a	220 a
	Dyne-A-Pak		AJ	28.8	FL OZ/A	0.5-in IE	A				
3	Regiment	80	WP	1.0	OZ/A	0.5-in IE	A	0 a	0 a	0 a	201 b
	Dyne-A-Pak		AJ	28.8	FL OZ/A	0.5-in IE	A				
4	Regiment	80	WP	0.5	OZ/A	2-in IE	B	0 a	0 a	0 a	204 b
	Dyne-A-Pak		AJ	28.8	FL OZ/A	2-in IE	B				
5	Regiment	80	WP	1.0	OZ/A	2-in IE	B	0 a	0 a	0 a	192 b
	Dyne-A-Pak		AJ	28.8	FL OZ/A	2-in IE	B				
Standard Deviation								0.0	0.0	0.0	8.4
CV								0.0	0.0	0.0	4.11

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Quadris, Quilt, and Tilt Programs in Rice

Trial ID: 06-WS-24
Location: DREC

Objectives:
To evaluate fungicides in Mississippi rice production.

Conclusions:
This experiment compared applications of Quilt and Tilt applied at the booting rice stage and following Quadris applied 7 days following panicle differentiation (PD+7). Although plots were inoculated twice with *Rhizoctonia solani*, no sheath blight developed due to the hot, dry conditions that persisted during July. Therefore, no sheath blight control observations were collected. Rice yields were higher when fungicides were applied compared with the nontreated check; however, whole grain and total milling were not influence by fungicide applications.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: Cheniere **Description:** Conventional variety
BBCH Scale: BRIC **Planting Date:** 4-May-06
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 71 F
Soil Moisture: Adequate **Emergence Date:** 13-May-06
Harvest Date: 12-Sep-06 **Harvest Equipment:** Mitsubishi VM-13
Harvested Width, Unit: 2.66 FT **Harvested Length, Unit:** 15 FT
% Standard Moisture: 12.0

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Complete Block
% Slope: 0.1 **Soil Drainage:** G Good

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	4-May-06	Command	3	ME	1.33	PT/A
2.	4-May-06	Aim	2	EC	1	FL OZ/A
3.	4-May-06	Agri-Dex		L	1.67	% V/V
4.	1-Jun-06	SuperWham	4	EC	4	QT/A
5.	1-Jun-06	Facet	75	DF	0.67	LB/A
6.	1-Jun-06	Permit	75	DF	1	OZ/A
7.	1-Jun-06	Agri-Dex		L	1.67	% V/V
8.	1-Jun-06	Urea (46:0:0)	46	GR	325	LB/A

Field Prep./Maintenance:
Tillage - Triple-K, 3-May-06.

Mississippi State University Delta Research and Extension Center
Quadris, Quilt, and Tilt Programs in Rice

Trial ID: 06-WS-24
Location: DREC

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 0.5 **Unit:** MI

	Date	Type
1.	22-May-06	Flush
2.	3-Jun-06	Flood
3.	31-Aug-06	Drain

Application Description

	A	B
Application Date:	10-Jul-06	31-Jul-06
Time of Day:	3:00 pm	8:00 am
Application Method:	Broadcast	Broadcast
Application Timing:	PD+7	Boot
Application Placement:	Foliar	Foliar
Applied By:	JAB, LCV	JAB, LCV
Air Temperature, Unit:	92 F	86 F
% Relative Humidity:	71	89
Wind Velocity, Unit:	3 MPH	4 MPH
Wind Direction:	SW	SW
Dew Presence (Y/N):	N	Y
Soil Moisture:	Flood	Flood
% Cloud Cover:	80	0

Crop Stage At Each Application

	A	B
Crop 1 Code:	ORYSA	ORYSA
Stage Majority, Percent:	PD+10	Boot
Height, Unit:	32 IN	40 IN
Height Minimum, Maximum:	29 33	38 42

Mississippi State University Delta Research and Extension Center
Quadris, Quilt, and Tilt Programs in Rice

Trial ID: 06-WS-24
Location: DREC

Application Equipment

	A	B
Appl. Equipment:	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	24 PSI	24 PSI
Nozzle Type:	TT	TT
Nozzle Size:	11001	11001
Nozzle Spacing, Unit:	16 IN	16 IN
Boom Length, Unit:	64 IN	64 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	2 MPH	2 MPH
Carrier:	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA

Date	By	Notes
30-Jun-06	JAB	Plots were inoculated with *Rhizoctonia solani*.
7-Jul-06	JAB	No sheath blight had developed, so plots were inoculated a second time with *Rhizoctonia solani*.
10-Jul-06	JAB	No sheath blight present at PD+7 application.
31-Jul-06	JAB	No sheath blight present at Boot application.

Mississippi State University Delta Research and Extension Center
Quadris, Quilt, and Tilt Programs in Rice

Trial ID: 06-WS-24
Location: DREC

Crop Name								Rice	Rice	Rice	Rice
Rating Date									12-Sep-06	2-Nov-06	2-Nov-06
Rating Data Type								50% Head	Yield	Total Mill	Whole Mill
Rating Unit								DAE	bu/A	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	2	5	8	9
1	Nontreated							80 a	158 b	71 a	62 a
2	Quadris	2.08	SC	6	FL OZ/A	PD + 7	A	80 a	183 a	72 a	65 a
	Quilt	1.67	SC	14	FL OZ/A	Boot	B				
3	Quadris	2.08	SC	6	FL OZ/A	PD + 7	A	80 a	177 a	71 a	63 a
	Tilt	3.6	EC	4	FL OZ/A	Boot	B				
Standard Deviation								0.0	10.3	0.4	1.7
CV								0.0	5.96	0.6	2.68

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Mississippi State University Delta Research and Extension Center
Fungicide Program Evaluation

Trial ID: 6906
Location: DREC

Objectives:
To compare rice response to fungicide sources, application rates, and timings.

Conclusions:
This experiment evaluated fungicide programs targeting different rice diseases on a conventional (Cheniere) and Clearfield (CL131) rice variety. Although plots were inoculated with *Rhizoctonia solani*, no sheath blight developed due to the hot, dry conditions that persisted during July. Therefore, no sheath blight control observations were collected. For each variety, no differences in maturity, rice yield, whole grain, or total milling were detected.

Crop Description

Crop 1: ORYSA *Oryza sativa* Rice
Variety: Various
BBCH Scale: BRIC
Planting Method: Drill **Rate, Unit:** 80 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: Smooth **Soil Temperature, Unit:** 71 F
Soil Moisture: Adequate **Emergence Date:** 13-May-04
Harvest Date: 12-Sep-06 **Harvest Equipment:** Mitsubishi VM-13
Harvested Width, Unit: 2.66 FT **Harvested Length, Unit:** 15 FT
% Standard Moisture: 12.0

Site and Design

Plot Width, Unit: 5.33 FT **Site Type:** Field
Plot Length, Unit: 15 FT **Tillage Type:** Conventional
Replications: 4 **Study Design:** Randomized Complete Block (Factorial treatment arrangement)
% Slope: 0.1 **Soil Drainage:** G Good

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	4-May-06	Command	3	ME	1.33	PT/A
2.	4-May-06	Aim	2	EC	1.67	FL OZ/A
3.	4-May-06	Agri-Dex		L	1.67	% V/V
4.	1-Jun-06	SuperWham	4	EC	4	QT/A
5.	1-Jun-06	Facet	75	DF	0.67	LB/A
6.	1-Jun-06	Permit	75	DF	1	OZ/A
7.	1-Jun-06	Agri-Dex		L	1.67	% V/V
8.	1-Jun-06	Urea (46:0:0)	46	GR	325	LB/A

Field Prep./Maintenance:
Tillage - Triple-K, 3-May-06.

Mississippi State University Delta Research and Extension Center
Fungicide Program Evaluation

Trial ID: 6906
Location: DREC

Soil Description

% Sand: 11 **% OM:** 2.1 **Texture:** Silty clay
% Silt: 30 **pH:** 8.2 **Soil Name:** Sharkey
% Clay: 59 **CEC:** 34.2 **Fert. Level:** Excellent

Additional Measured Elements

Element	Quantity	Unit
P	246	LB/A
K	587	LB/A
Ca	9545	LB/A
Mg	2307	LB/A
S	299	LB/A
Zn	4.5	LB/A

Moisture Conditions

Overall Moisture Conditions: Below Normal
Closest Weather Station: MSU-DREC **Distance:** 0.5 **Unit:** MI

	Date	Type
1.	22-May-06	Flush
2.	3-Jun-06	Flood
3.	31-Aug-06	Drain

Application Description

	A	B
Application Date:	14-Jul-06	31-Jul-06
Time of Day:	7:30 am	7:00 am
Application Method:	Broadcast	Broadcast
Application Timing:	PD+14	PD+28
Application Placement:	Foliar	Foliar
Applied By:	JAB	JAB, LCV
Air Temperature, Unit:	84 F	86 F
% Relative Humidity:	73	89
Wind Velocity, Unit:	4 MPH	3 MPH
Wind Direction:	SW	SW
Dew Presence (Y/N):	Y	Y
Soil Moisture:	Flood	Flood
% Cloud Cover:	0	0

Crop Stage At Each Application

	A	B
Crop 1 Code:	ORYSA	ORYSA
Stage Majority, Percent:	PD+14	Boot
Stage Minimum, Percent:	PD+14	Boot
Stage Maximum, Percent:	PD+14	Boot
Height, Unit:	33 IN	40 IN
Height Minimum, Maximum:	31 35	38 42

Mississippi State University Delta Research and Extension Center
Fungicide Program Evaluation

Trial ID: 6906
Location: DREC

Application Equipment

	A	B
Appl. Equipment:	CO2 backpack	CO2 backpack
Operating Pressure, Unit:	24 PSI	24 PSI
Nozzle Type:	TT	TT
Nozzle Size:	11001	11001
Nozzle Spacing, Unit:	16 IN	16 IN
Boom Length, Unit:	64 IN	64 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	2 MPH	2 MPH
Carrier:	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA

Date	By	Notes
30-Jun-06	JAB	Plots were inoculated with *Rhizoctonia solani*.
7-Jul-06	JAB	No sheath blight had developed, so plots were inoculated a second time with *Rhizoctonia solani*.
14-Jul-06	JAB	No sheath blight present at PD+14 application.
31-Jul-06	JAB	No sheath blight present at Boot application.

Mississippi State University Delta Research and Extension Center
Fungicide Program Evaluation

Trial ID: 6906
Location: DREC

Crop Name								Rice	Rice	Rice	Rice
Rating Date									12-Sep-06	1-Nov-06	1-Nov-06
Rating Data Type								50% Head	Yield	Total Mill	Whole Mill
Rating Unit								DAE	bu/A	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	2	5	8	9
1	Cheniere Nontreated							82 a	179 ab	72 a	64 abc
2	Cheniere Quadris	2.08	SC	6.15	FL OZ/A	PD+14	A	81 a	175 abc	71 abc	63 a-e
3	Cheniere Quadris	2.08	SC	12.3	FL OZ/A	PD+14	A	81 a	175 abc	72 a	66 a
4	Cheniere Quadris	2.08	SC	6.15	FL OZ/A	PD+14	A	82 a	189 a	71 a-e	63 a-e
	Stratego	2.08	SC	6.8	FL OZ/A	PD+28	B				
5	Cheniere Stratego	2.08	SC	6.8	FL OZ/A	PD+28	B	81 a	185 a	71 ab	64 a-d
6	Cheniere Quilt	1.67	SC	8.4	FL OZ/A	PD+28	B	82 a	179 ab	72 a	64 ab
7	Cheniere Quadris	2.08	SC	6.15	FL OZ/A	PD+14	A	81 a	181 a	71 a-d	63 a-e
	Quilt	1.67	SC	8.4	FL OZ/A	PD+28	B				
8	Cheniere Quadris	2.08	SC	12.3	FL OZ/A	PD+14	A	81 ab	188 a	71 a-d	64 a-d
	Tilt	3.6	EC	3.9	FL OZ/A	PD+28	B				
9	Cheniere Quadris	2.08	SC	6.15	FL OZ/A	PD+14	A	81 a	184 a	71 ab	65 ab
	Tilt	3.6	EC	3.9	FL OZ/A	PD+28	B				
10	Cheniere Quilt	1.67	SC	7.7	FL OZ/A	PD+28	B	82 a	189 a	72 a	63 a-e
11	CL131 Nontreated							79 c	154 d	70 de	59 b-f
12	CL131 Quadris	2.08	SC	6.15	FL OZ/A	PD+14	A	78 c	157 d	70 de	57 c-f
13	CL131 Quadris	2.08	SC	12.3	FL OZ/A	PD+14	A	79 bc	160 cd	70 de	57 Ef
14	CL131 Quadris	2.08	SC	6.15	FL OZ/A	PD+14	A	79 c	156 d	71 b-e	54 F
	Stratego	2.08	SC	6.8	FL OZ/A	PD+28	B				
15	CL131 Stratego	2.08	SC	6.8	FL OZ/A	PD+28	B	79 c	153 d	71 b-e	54 F
16	CL131 Quilt	1.67	SC	8.4	FL OZ/A	PD+28	B	79 bc	156 d	70 e	57 c-f
17	CL131 Quadris	2.08	SC	6.15	FL OZ/A	PD+14	A	79 c	161 cd	70 cde	57 d-f
	Quilt	1.67	SC	8.4	FL OZ/A	PD+28	B				
18	CL131 Quadris	2.08	SC	12.3	FL OZ/A	PD+14	A	79 c	164 bcd	70 de	54 F
	Tilt	3.6	EC	3.9	FL OZ/A	PD+28	B				
19	CL131 Quadris	2.08	SC	6.15	FL OZ/A	PD+14	A	78 c	153 d	70 e	53 F
	Tilt	3.6	EC	3.9	FL OZ/A	PD+28	B				
20	CL131 Quilt	1.67	SC	7.7	FL OZ/A	PD+28	B	79 c	151 d	70 de	54 ff
Standard Deviation								0.9	9.9	0.5	3.6
CV								1.08	5.82	0.74	6.11

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Appendix I

Abbreviations

Abbreviations Used in Rice Weed and Pest Management Research

Abbreviation	Definition
A	Acre
AI	Air induction nozzle
ASN	As needed
bu/A	Bushels per acre
Ca	Calcium
COC	Crop oil concentrate
D or d	day
DA	Days after
DPRE	Delayed preemergence application made after planting but prior to crop emergence
DAE	Days after emergence
DAP	Days after planting
DAT	Days after treatment
DG	Drift guard nozzle
DPP	Days prior to planting
EPOST	Early postemergence application made to rice in the one- to two-leaf growth stage
F	Fahrenheit
FL OZ/A	Fluid ounces product per acre
FT	Feet
FT2	Square feet
GPA	Gallons per acre
Head	Crop or weed panicle visible
IE	Internode elongation
IN or in	Inches
lb	Pounds
LB/A	Pounds product per acre
LB A/A or lb ai/A	Pounds active ingredient per acre
Ldg-Rate	Lodging rate in percent
Ldg-Type	Lodging type on a scale of 1 to 5 where 1 = slightly leaning and 5 = complete
lf	Leaf
K	Potassium
LPOST	Late postemergence application made to rice in the four-leaf to one-tiller growth stage
Mg	Magnesium
MI	Miles
MPH	Miles per hour
MPOST	Mid postemergence application made to rice in the three- to four-leaf growth stage
NA	Information not available/applicable
NIS	Non-ionic surfactant
OZ/A	Ounces product per acre
P	Phosphorus
PD	Panicle differentiation
PI	Panicle initiation
PRE	Preemergence application made prior to or at planting
PRFLD	Prior to permanent flood establishment
PTFLD	After permanent flood establishment
PT/A	Pints product per acre
QT/A	Quarts product per acre
S	Sulfur
til	Tillers
Total Mill	Percent of rice kernels left after milling
TT	Turbo TeeJet nozzle
UAN	Urea-ammonium nitrate solution
VS	Visible stainless steel nozzle
Whole Mill	Percent of unbroken kernels left after milling
XR	Extended range nozzle
Zn	Zinc
50% Head	Number of days from crop emergence until 50% panicle exertion

Common Rice Weeds of Mississippi

Bayer Code	Common Name	Scientific Name
AESIN	Indian jointvetch	*Aeschynomene indica*
AESVI	northern jointvetch	*Aeschynomene virginica*
ALRPH	alligatorweed	*Alternanthera philoxeroides*
AMMCO	purple ammannia (redstem)	*Ammannia coccinea*
BRAPP	broadleaf signalgrass	*Brachiaria platyphylla*
CNPPA	Texasweed	*Caperonia palustris*
COMDI	spreading dayflower	*Commelina diffusa*
CYPIR	rice flatsedge	*Cyperus iria*
CYPES	yellow nutsedge	*Cyperus esculentus*
ECHCG	barnyardgrass	*Echinocloa crus-galli*
ECLAL	eclipta	*Eclipta prostrata*
HETLI	ducksalad	*Heteranthera limosa*
IPOHE	ivyleaf morningglory	*Ipomoea hederacea*
IPOLA	pitted morningglory	*Ipomoea lacunosa*
LEFFA	bearded sprangletop (loosehead)	*Leptochloa fascicularis*
LEFPA	Amazon sprangletop (tighthead)	*Leptochloa panicoides*
ORYSA	red rice	*Oryza sativa*
PANDI	fall panicum	*Panicum dichotomiflorum*
PANRA	browntop millet	*Brachiaria ramosa*
POLPE	ladysthumb	*Polygonum aviculare*
POLPY	Pennsylvania smartweed	*Polygonum pensylvanicum*
SEBEX	hemp sesbania	*Sesbania exaltata*

Appendix II

List of Chemicals

List of Herbicides

Trade Name	Formulation	Manufacturer	Common Name	Chemical Name
Aim	2 EC	FMC	carfentrazone	ethyl α,2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoate
Beyond	1 AS	BASF	imazamox	2-[4,5-dihydro-4-methyl-4-(1-methylethyl-5-oxo-1*H*-imidazol-2-yl]-5-(methoxymethyl)-3-pyridinecarboxylic acid
Clearpath	75 DF	BASF	quinclorac (0.62 lb ai/lb) + imazethapyr (0.13 lb ai/lb)	3,7-dichloro-8-quinolinecarboxylic acid + (±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid
Clincher SF	2.38 EC	Dow AgroSciences	cyhalofop-butyl	2-[4-(4-cyano-2- fluorphenoxy)phenoxy] propanoic acid, butyl ester, (R)
Command	3 ME	FMC	clomazone	2-(2-chlorophenyl)methyl-4,4-dimethyl-3-isoxazolidinone
Facet	75 DF	BASF	quinclorac	3,7-dichloro-8-quinolinecarboxylic acid
Grandstand R	3 SL	Dow AgroSciences	triclopyr	3,5,6-trichloro-2-pyridinyloxyacetic acid
Grasp	2 SC	Dow AgroSciences	penoxsulam	(2-(2,2-difluoroethoxy)-6- trifluoromethyl-N-(5,8-dimethoxy[1,2,4]triazolo-[1,5c]pyrimidin-2-yl)benzenesulfonamide)
Londax	60 DF	DuPont	bensulfuron	methyl-2-[[[[[4,6-dimethoxypyrimidin-2-yl)amino]-carbonyl]amino]sulfonyl]methyl] benzoate
Newpath	2 AS	BASF	imazethapyr	(±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid
Permit	75 DF	Gowan	halosulfuron	methyl 5-{[(4,6-dimethoxy-2-pyrimidinyl) amino] carbonylamino-sulfonyl}-3-chloro-1-methyl-1-H-pyrazole-4-carboxylate
Prowl EC	3.3 EC	BASF	pendimethalin	N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine
Prowl H2O	3.8 CS	BASF	pendimethalin	N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine
Regiment	80 WP	Valent	bispyribac-sodium	sodium 2,6-bis [4,6-dimethoxy pyrimidin-2-yl)oxy] benzoate
Ricestar HT	0.58 EC	Bayer	fenoxaprop-p-ethyl	(±)-ethyl 2-[4-[(6-chloro-2-benzoxazolyl) oxy]phenoxy]propanoate
Stam M-4	4 EC	Dow AgroSciences	propanil	3',4'-dichloropropionanilide

List of Herbicides (continued)

Trade Name	Formulation	Manufacturer	Common Name	Chemical Name
Super Wham	4 EC	RiceCo	propanil	3',4'-dichloropropionanilide
Ultra Blazer	2 L	BASF	acifluorfen	sodium 5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-nitrobenzoate
NA	10 WP	DuPont	DPX-KF081	NA
NA	50 WG	Isagro	IR5878 (orthosulfamuron)	NA
NA	75 DG	Valent	V-10142	NA

List of Fungicides

Trade Name	Formulation	Manufacturer	Common Name	Chemical Name
Quadris	2.08 SC	Syngenta	azoxystrobin	methyl (E)-2-{2-[6-(2-cyanophenoxy) pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate
Quilt	1.67 SC	Syngenta	azoxystrobin (1.04 lb ai/gal) + propiconazole (0.63 lb ai/gal)	methyl (E)-2-{2-[6-(2-cyanophenoxy) pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate + 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole
Stratego	2.08 SC	Bayer	trifloxystrobin (1.04 lb ai/gal) + propiconazole (0.63 lb ai/gal)	methyl 2-methoxyimino-2-[2-[1-[3-(trifluoromethyl) phenyl] ethylideneaminooxymethyl]phenyl]-acetate + 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole
Tilt	3.6 EC	Syngenta	propiconazole	1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole

List of Spray Adjuvants

Trade Name	Formulation	Manufacturer	Common Name	Composition
Agri-Dex	99%	Helena	crop oil concentrate	paraffin base petroleum oil (84%), polyol fatty acid esters and polyethoxylated derivatives (15%)
Dyne-A-Pak	100%	Helena	methylated seed oil	blend of alkanolamides, alkanoates, trisiloxane, carbamides, methylated seed oil, and urea-ammonium nitrate solution
Kinetic HV	99%	Helena	nonionic surfactant	blend of polyalkyleneoxide modified polydimethylsiloxane and polyoxypropylene-polyoxyethylene block copolymers
Induce	90%	Helena	nonionic surfactant	blend of alkyl aryl polyoxylkane ether and free fatty acids
Urea-ammonium nitrate	33%	NA	fertilizer	Blend of urea and ammonium nitrate solution

Appendix III

Rainfall Data

Rainfall Data for the Delta Research and Extension Center in 2006

Day of month	May	June	July	August	September
1	0	0.03	0	0	0
2	0	0.48	0	0	0
3	0	0	0	0	0
4	0	0	0	0	0
5	0.36	0	0.37	0	0
6	0	0	0.78	0	0
7	0.19	0	0	0	0
8	0	0	0	0	0
9	0	0	0	0	0
10	0.83	0	0	0	0
11	0.68	0	0	0	0
12	0	0	0	1.11	0.06
13	0	0	0	0.38	0.13
14	0	0	0	0	0
15	0	0	0	0	0
16	0	0	0.63	0	0
17	0.22	0	0	0	0
18	0	0	0	0	0.64
19	0	0.58	0	0	0.19
20	0	0	0	0	0
21	0	0	0	0	0
22	0	0	0	0.01	0
23	0	0	0	0	0
24	0	0.45	0	0	1.70
25	0	0.21	0	0	0
26	0	0.06	0	0	0
27	0	0	0	0	0
28	0	0	0	0	0
29	0	0	0	0	0
30	0.52	0	0	0.01	0
31	0.06	-	0	0	-
Total	**2.86**	**1.81**	**1.78**	**1.51**	**2.72**

Mississippi State University

Printed on Recycled Paper