

# LSU Northeast Research Station

## Alligatorweed control in drill-seeded rice.

Trial ID: SJ07R013      Protocol ID: SJ07R013  
 Location:                      Study Director:  
                                     Investigator: Bill Williams

### General Trial Information

**Investigator:** Bill Williams

### Crop Description

**Crop 1:** ORYSA Oryza sativa      Common rice  
**Variety:** Cocodrie      **Description:** 5/22/07  
**BBCH Scale:** BRIC  
**Planting Method:** DRILLED      **Rate, Unit:** 100      LB/A  
**Depth, Unit:** 1      IN  
**Row Spacing, Unit:** 8      IN  
**Seed Bed:** MEDIUM  
**Soil Moisture:** DRY  
  
**Harvest Equipment:** Small plot combine  
**Harvested Width, Unit:** 5      FT      **Harvested Length, Unit:** 12      FT  
**% Standard Moisture:** 12.0

### Pest Description

**Pest 1 Type:** W      **Code:** ALRPH      Alternanthera philoxeroides  
                                     **Common Name:** Alligatorweed  
  
**Pest 2 Type:** W      **Code:** CYPES      Cyperus esculentus  
                                     **Common Name:** Chufa  
  
**Pest 3 Type:** W      **Code:** SEBEX      Sesbania exaltata  
                                     **Common Name:** Coffeebean

### Site and Design

**Plot Width, Unit:** 6.67      FT      **Site Type:** RICE PADDY  
**Plot Length, Unit:** 15      FT      **Tillage Type:** CONVENTIONAL-TILL  
**Replications:** 3      **Study Design:** Randomized Complete Block

### Soil Description

**Description Name:** Bay 4  
**% Sand:** 25.2      **% OM:** 2.8      **Texture:** Clay  
**% Silt:** 32.8      **pH:** 6.2      **Soil Name:** Sharkey Clay  
**% Clay:** 42      **CEC:** 22.2      **Fert. Level:** EXCELLENT

### Moisture and Weather Conditions

**Overall Moisture Conditions:** Dry  
**Closest Weather Station:** Northeast Research Station      **Distance:** 0.5      **Unit:** MI

	Date	Amount	Unit	Type
1.	2/May/07	0.04	IN	
2.	3/May/07	1.24	IN	
3.	15/May/07	0.02	IN	
4.	16/May/07	0.01	IN	
5.	17/May/07	0.01	IN	

6.	23/May/07		FLUSH
7.	30/May/07		FLUSH
8.	3/Jun/07	0.02	IN
9.	16/Jun/07	0.01	IN
10.	18/Jun/07	0.02	IN
11.	19/Jun/07	0.4	IN
12.	28/Jun/07		FERTILIZE - 300# prilled urea
13.	28/Jun/07		FLOOD
14.	2/Jul/07	0.3	IN
15.	3/Jul/07	0.06	IN
16.	4/Jul/07	1.14	IN
17.	5/Jul/07	0.31	IN
18.	6/Jul/07	0.27	IN
19.	7/Jul/07	1.39	IN
20.	9/Jul/07	0.36	IN
21.	10/Jul/07	0.01	IN
22.	11/Jul/07	0.27	IN
23.	13/Jul/07	0.3	IN
24.	14/Jul/07	1.96	IN
25.	15/Jul/07	2.8	IN
26.	17/Jul/07	1.56	IN
27.	20/Jul/07	0.93	IN
28.	21/Jul/07	0.1	IN
29.	22/Jul/07	0.01	IN
30.	30/Jul/07	2.35	IN

**Application Description**

	<b>A</b>		<b>B</b>
<b>Application Date:</b>	18/May/07		25/Jun/07
<b>Application Method:</b>	SPRAY		SPRAY
<b>Application Timing:</b>	PRE		3 DPF
<b>Application Placement:</b>	BROSOI		BROFOL
<b>Air Temperature, Unit:</b>	76	F	95 F
<b>% Relative Humidity:</b>			45
<b>Wind Velocity, Unit:</b>	4	MPH	5 MPH
<b>Wind Direction:</b>	N		S
<b>Soil Temperature, Unit:</b>	78	F	90 F
<b>Soil Moisture:</b>	DAMP		
<b>% Cloud Cover:</b>	0		

**Crop Stage At Each Application**

	<b>A</b>		<b>B</b>
<b>Crop 1 Code, BBCH Scale:</b>	ORYSA	BRIC	ORYSA BRIC
<b>Stage Scale Used:</b>	N/A		5 LF
<b>Stage Majority, Percent:</b>			5"
<b>Stage Maximum, Percent:</b>			6"

**Pest Stage At Each Application**

	<b>A</b>		<b>B</b>
<b>Pest 1 Code, Disc., Scale:</b>	ALRPH	WALRPH	W
<b>Stage Majority, Percent:</b>		6-10	R
<b>Stage Minimum, Percent:</b>		10"	
<b>Stage Maximum, Percent:</b>		12"	
<b>Pest 2 Code, Disc., Scale:</b>	CYPES	WCYPES	W
<b>Stage Majority, Percent:</b>		8-10	L
<b>Stage Minimum, Percent:</b>		10"	
<b>Stage Maximum, Percent:</b>		12"	
<b>Pest 3 Code, Disc., Scale:</b>	SEBEX	WSEBEX	W
<b>Stage Majority, Percent:</b>		8-10	L
<b>Stage Minimum, Percent:</b>		6"	
<b>Stage Maximum, Percent:</b>		7"	

**Application Equipment**

	<b>A</b>		<b>B</b>	
<b>Appl. Equipment:</b>	Backpack		Backpack	
<b>Operating Pressure, Unit:</b>	31	PSI	31	PSI
<b>Nozzle Type:</b>	Greenleaf		Greenleaf	
<b>Nozzle Size:</b>	11002		11002	
<b>Nozzle Spacing, Unit:</b>	20	IN	20	IN
<b>Nozzles/Row:</b>	2		2	
<b>Ground Speed, Unit:</b>	2.8	MPH	2.8	MPH
<b>Carrier:</b>	Water		Water	
<b>Spray Volume, Unit:</b>	15	GAL/AC	15	GAL/AC
<b>Propellant:</b>	CO2		CO2	

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Protocol ID: SJ07R013

Location:

Study Director:

Investigator: Bill Williams

Pest Type		ALLIGATOALLIGATOALLIGATOALLIGATO							
Pest Code									
Crop Code									
Part Rated		platot p		platot p		platot p		platot p	
Rating Date		6/Jul/07		9/Jul/07		23/Jul/07		20/Aug/07	
Rating Data Type		control		control		control		control	
Rating Unit		%		%		%		%	
Trt-Eval Interval		11 DA-B		14 DA-B		28 DA-B		56 DA-B	
Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	
1	Command	1	PT/A	PRE	0	d 0	b0	b0	c
2	Command	1	PT/A	PRE	90	ab 77	a 92	a 95	a
	Strada	2.1	OZ/A	3 DPF					
	Grandstand	11	OZ/A	3 DPF					
	Induce	0.5	% V/V	3 DPF					
3	Command	1	PT/A	PRE	93	a 93	a 92	a 90	a
	Strada	2.1	OZ/A	3 DPF					
	Grasp	2	OZ/A	3 DPF					
	Agridex	2.5	% V/V	3 DPF					
4	Command	1	PT/A	PRE	90	ab 93	a 92	a 93	a
	Strada	2.1	OZ/A	3 DPF					
	Regiment	0.5	OZ/A	3 DPF					
	Dyne-A-Pak	1.5	% V/V	3 DPF					
5	Command	1	PT/A	PRE	83	c 83	a 88	a 88	a
	Grandstand	11	OZ/A	3 DPF					
	Induce	0.5	% V/V	3 DPF					
6	Command	1	PT/A	PRE	87	b 90	a 90	a 90	a
	Grasp	2	OZ/A	3 DPF					
	Agridex	2.5	% V/V	3 DPF					
7	Command	1	PT/A	PRE	93	a 90	a 92	a 90	a
	Grasp	2.6	OZ/A	3 DPF					
	Agridex	2.5	% V/V	3 DPF					
8	Command	1	PT/A	PRE	93	a 90	a 88	a 88	a
	Regiment	0.5	OZ/A	3 DPF					
	Dyne-A-Pak	1.5	% V/V	3 DPF					
9	Command	1	PT/A	PRE	88	b 77	a 80	a 77	b
	Grandstand	16	OZ/A	3 DPF					
	Induce	0.5	% V/V	3 DPF					
10	Command	1	PT/A	PRE	93	a 90	a 90	a 90	a
	Regiment	0.5	OZ/A	3 DPF					

	Aim	1	OZ/A	3	DPF				
	Dyne-A-Pak	1.5	% V/V	3	DPF				
11	Command	1	PT/A	PRE	90	ab90	a90	a90	a
	Regiment	0.5	OZ/A	3	DPF				
	Permit	0.5	OZ/A	3	DPF				
	Dyne-A-Pak	1.5	% V/V	3	DPF				
12	Command	1	PT/A	PRE	90	ab93	a90	a90	a
	Londax	0.75	OZ/A	3	DPF				
	Grasp	2	OZ/A	3	DPF				
	Agridex	2.5	% V/V	3	DPF				
LSD (P=.10)					2.7	9.0	7.7	6.9	
Standard Deviation					1.9	6.5	5.5	4.9	
CV					2.34	8.01	6.67	5.99	
Grand Mean					82.64	80.56	81.94	81.81	
Bartlett's X2					0.0	11.207	16.36	7.303	
P(Bartlett's X2)					1.00	0.047*	0.012*	0.063	
Replicate F					4.661	1.619	0.721	0.811	
Replicate Prob(F)					0.0205	0.2208	0.4974	0.4575	
Treatment F					553.000	48.923	67.932	85.418	
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	

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Pest Type				
Pest Code		ALLIGATO	ALLIGATO	ALLIGATO
Crop Code				
Part Rated		platot p	platot p	platot p
Rating Date		6/Jul/07	9/Jul/07	23/Jul/07
Rating Data Type		control	control	control
Rating Unit		%	%	%
Trt-Eval Interval		11 DA-B	14 DA-B	28 DA-B
Trt Treatment	Rate	Growth		
No.Name	RateUnit	Stage	1	2
			3	4

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)

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