

LSU Northeast Research Station

Broadleaf weed management programs for Clearfield rice.

Trial ID: SJ06R029
Location:

Protocol ID:
Study Director:
Investigator: Bill Williams

General Trial Information

Investigator: Bill Williams

Crop Description

Crop 1: ORYSA Oryza sativa Common rice
Variety: C1131
BBCH Scale: BRIC **Planting Date:** 5/25/06
Planting Method: DRILLED **Rate, Unit:** 100 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: MEDIUM
Soil Moisture: DRY **Emergence Date:** 5/31/06
Harvested Width, Unit: 5 FT **Harvest Equipment:** Small plot combine
Harvested Length, Unit: 12 FT
% Standard Moisture: 12.0

Pest Description

Pest 1 Type: W **Code:** ECHCG **Echinochloa crus-galli**
Common Name: Common barnyardgrass
Pest 2 Type: W **Code:** LEFPA **Leptochloa panicoides**
Common Name: Amazon sprangletop
Pest 3 Type: W **Code:** SEBEX **Sesbania exaltata**
Common Name: Coffeebean
Pest 4 Type: W **Code:** CNPPA **Cyperus iria**
Common Name: Texasweed
Pest 5 Type: W **Code:** CYPPIR **Cyperus iria**
Common Name: Rice flatsedge

Site and Design

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

Soil Description

Description Name: Bay 1 - North End
% Sand: 24 **% OM:** 2.01 **Texture:** Clay
% Silt: 34 **pH:** 7.96 **Soil Name:** Sharkey
% Clay: 42 **CEC:** 21.9 **Fert. Level:** Excellent

Moisture Conditions

Overall Moisture Conditions: Dry
Closest Weather Station: Northeast Research Station **Distance:** 0.25 **Unit:** MI

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	Date	Time	Amount	Unit	Type	Interval	Unit
1.	5/26/06				Flush		
2.	5/28/06	5:00 pm	0.18	In	Rain	1	Hou
3.	5/29/06	2:30 pm	0.46	In	Rain	2.5	Hou
4.	5/30/06	1:30 pm	0.79	In	Rain	3	Hou
5.	6/2/06	6:30 pm	0.03	In	Rain	1	Hou
6.	6/5/06				Flush		
7.	6/12/06				Flush		
8.	6/17/06	7:00 pm	0.03	In	Rain	1	Hou
9.	6/18/06	10:00 p	0.01	In	Rain	1	Hou
10.	6/19/06	10:00 p	0.05	In	Rain	1	Hou
11.	6/20/06	2:30 pm	0.19	In	Rain	1	Hou
12.	6/24/06	9:00 pm	0.07	In	Rain	1	Hou
13.	6/27/06				Fertilizer		
14.	6/28/06				Permanent Flood		
15.	7/3/06	1:00 pm	0.07	In	Rain	0.5	Hou
16.	7/4/06	3:00 pm	0.69	In	Rain	1.5	Hou
17.	7/4/06	7:00 am				1	Hou
18.	7/5/06	12:00 a	1.25	In	Rain	0.75	Hou
19.	7/5/06	6:00pm				1.5	Hou
20.	7/6/06	6:00 pm	0.35	In	Rain	3.5	Hou
21.	7/11/06	2:00 pm	0.45	In	Rain	2	Hou

Application Description

	A	B
Application Date:	6/7/06	6/21/06
Time of Day:	2:00	10:30
Application Method:	SPRAY	SPRAY
Application Timing:	1-2 LF	2 WAA
Application Placement:	BROFOL	BROFOL
Air Temperature, Unit:	97 F	96 F
% Relative Humidity:	46	68
Wind Velocity, Unit:	2 MPH	2 MPH
Wind Direction:	N	S
Soil Temperature, Unit:	91 F	96 F
Soil Moisture:	WET	DRY
% Cloud Cover:	0	80

Crop Stage At Each Application

	A		B	
Crop 1 Code, BBCH Scale:	ORYSA BRIC		ORYSA BRIC	
Stage Scale Used:	BBCH		BBCH	
Stage Majority, Percent:	2 leaf	100	4 leaf	100
Height, Unit:	2.5	In	7.5	In
Height Minimum, Maximum:	2.5	3	7	8

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Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	ECHCG W	ECHCG W
Stage Majority, Percent:	2-3 LF 100	1 till 100
Height, Unit:	0.75 IN	4.5 IN
Height Minimum, Maximum:	0.5 1	4 5
Pest 2 Code, Disc., Scale:	LEFPA W	LEFPA W
Stage Majority, Percent:	1-2 LF 100	4 leaf 100
Height, Unit:	0.5 IN	7 IN
Height Minimum, Maximum:	0.25 0.5	6 8
Pest 3 Code, Disc., Scale:	SEBEX W	SEBEX W
Stage Majority, Percent:	1 leaf 100	8 leaf 100
Height, Unit:	0.75 IN	7 IN
Height Minimum, Maximum:	0.5 1	6 8
Pest 4 Code, Disc., Scale:	CNPPA W	CNPPA W
Stage Majority, Percent:	3-4 LF 100	6 lf 100
Height, Unit:	2.5 IN	7 IN
Height Minimum, Maximum:	2 3	6 8
Pest 5 Code, Disc., Scale:	CYPIR W	CYPIR W
Stage Majority, Percent:	3 LF 100	--
Height, Unit:	0.75 IN	3 IN
Height Minimum, Maximum:	0.5 1	2 4

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Pest Type	SEBEX	SEBEX	SEBEX	SEBEX	SEBEX	W Weed	ECLAL	ECLAL		
Pest Code	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P		
Part Rated										
Rating Date	6/15/06	6/22/06	6/30/06	7/3/06	7/17/06	6/22/06	6/30/06	7/3/06		
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit	%	%	%	%	%	%	%	%		
Days After First/Last Applic.	8 8	15 1	23 9	26 12	40 26	15 1	23 9	26 12		
Trt-Eval Interval	8 DA-A	15 DA-A	9 DA-B	12 DA-B	26 DA-B	15 DA-A	9 DA-B	12 DA-B		
Plant-Eval Interval	21 DP-1	28 DP-1	36 DP-1	39 DP-1	53 DP-1	28 DP-1	36 DP-1	39 DP-1		
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
No.	Name	Unit	1	2	3	4	5	6	7	8
12	Newpath	4 oz/a	0.0 b	0.0 b	90.0 a	90.0 a	81.7 cd	0.0 c	95.0 a	91.7 a
	COC	1 % v/v								
	Newpath	4 oz/a								
	Londax	0.75 oz/a								
	Permit	0.25 oz/a								
	COC	1 % v/v								
LSD (P=.05)			3.18	4.40	7.79	5.30	6.41	6.38	5.88	3.10
Standard Deviation			1.88	2.60	4.60	3.13	3.79	3.77	3.47	1.83
CV			4.89	6.76	6.26	4.19	5.73	6.65	4.16	2.21
Bartlett's X2			0.0	3.28	5.613	2.85	4.968	5.018	6.015	2.141
P(Bartlett's X2)			1.00	0.194	0.778	0.827	0.548	0.658	0.538	0.976
Replicate F			0.786	2.570	0.427	0.071	1.211	8.360	2.131	18.887
Replicate Prob(F)			0.4682	0.0993	0.6578	0.9317	0.3169	0.0020	0.1426	0.0001
Treatment F			1918.482	1004.738	173.048	384.439	278.520	382.720	181.503	689.415
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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

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