

LSU Northeast Research Station

Regiment plus UAN for weed control in rice.

Trial ID: SJ06R015
Location:

Protocol ID: SJ06R015
Study Director:
Investigator: Bill Williams

General Trial Information

Investigator: Bill Williams

Crop Description

Crop 1: ORYSA Oryza sativa	Common rice
Variety: Tranasse	
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
	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: 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	Caperonia palustris
	Common Name:	Texasweed

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

Maintenance

No.	Date	Maintenance Treatment Name	Rate	Rate Unit
1.	6/27/06	Prilled Urea	300	lb/A

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				Permanent Flood		
14.	7/3/06	1:00 pm	0.07	In	Rain	0.5	Hou
15.	7/4/06	3:00 pm	0.69	In	Rain	1.5	Hou
16.	7/4/06	7:00 am				1	Hou
17.	7/5/06	12:00 a	1.25	In	Rain	0.75	Hou
18.	7/5/06	6:00pm				1.5	Hou
19.	7/6/06	6:00 pm	0.35	In	Rain	3.5	Hou
20.	7/11/06	2:00 pm	0.45	In	Rain	2	Hou

Application Description

	A	B	C
Application Date:	5/25/06	6/16/06	6/20/06
Time of Day:	8:30	10:00	10:00
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MPOST	4-5 LF
Application Placement:	BROSOI	BROFOL	BROFOL
Air Temperature, Unit:	72 F	85 F	85 F
% Relative Humidity:	68	74	68
Wind Velocity, Unit:	3 MPH	4 MPH	2 MPH
Wind Direction:	N	S	SE
Soil Temperature, Unit:	81 F	88 F	96 F
Soil Moisture:	DRY	DAMP	DAMP
% Cloud Cover:	30	70	10

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ORYSA BRIC	ORYSA BRIC	ORYSA BRIC
Stage Scale Used:	BBCH	BBCH	BBCH
Stage Majority, Percent:	NA	3 leaf 100	4 leaf 100
Height, Unit:		5.5 In	7 In
Height Minimum, Maximum:		5 6	6 8

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Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	ECHCG W	ECHCG W	ECHCG W
Stage Majority, Percent:	N/A	3-4 LF 100	4-5 LF 100
Height, Unit:		0.75 IN	1.5 IN
Height Minimum, Maximum:		0.5 1	1 2
Pest 2 Code, Disc., Scale:	LEFPA W	LEFPA W	LEFPA W
Stage Majority, Percent:	N/A	5 lf 100	1 TILL 100
Height, Unit:		5 IN	7 IN
Height Minimum, Maximum:		4 6	6 8
Pest 3 Code, Disc., Scale:	SEBEX W	SEBEX W	SEBEX W
Stage Majority, Percent:	N/A	7-8 lf 100	8 LF 100
Height, Unit:		4.5 IN	7 IN
Height Minimum, Maximum:		4 5	6 8
Pest 4 Code, Disc., Scale:	CNPPA W	CNPPA W	CNPPA W
Stage Majority, Percent:	N/A	5 lf 100	6 LF
Height, Unit:		5 IN	6 IN
Height Minimum, Maximum:		4 6	7 8

Application Equipment

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

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Pest Code	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG	LEFPA	LEFPA	LEFPA	LEFPA		
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P		
Rating Date	5/30/06	6/10/06	6/22/06	7/3/06	7/18/06	5/30/06	6/10/06	6/22/06	7/3/06		
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit	%	%	%	%	%	%	%	%	%		
Days After First/Last Applic.	5 5	16 16	28 2	39 13	54 28	5 5	16 16	28 2	39 13		
Trt-Eval Interval	5 DA-A	16 DA-A	6 DA-B	13 DA-C	28 DA-C	5 DA-A	16 DA-A	28 DA-A	13 DA-C		
Plant-Eval Interval	5 DP-1	16 DP-1	28 DP-1	39 DP-1	54 DP-1	5 DP-1	16 DP-1	28 DP-1	39 DP-1		
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
No.	Name	Unit	1	2	3	4	5	6	7	8	9
1	Command Regiment Kinetic 32% UAN	0.8 pt/a 0.5 oz/a 0.25 % v/v 2 % v/v	93.3 a	76.7 a	83.3 a	95.0 a	95.0 a	95.0 a	76.7 a	66.7 a	0.0 a
2	Command Regiment Dyne-A-Pak	0.8 pt/a 0.5 oz/a 1.5 % v/v	95.0 a	76.7 a	76.7 a	95.0 a	95.0 a	95.0 a	76.7 a	63.3 a	0.0 a
3	Command Regiment Kinetic	0.8 pt/a 0.5 oz/a 0.25 % v/v	95.0 a	76.7 a	76.7 a	95.0 a	95.0 a	95.0 a	76.7 a	63.3 a	0.0 a
4	Command Regiment Dyne-A-Pak	0.8 pt/a 0.5 oz/a 1.5 % v/v	95.0 a	76.7 a	56.7 b	0.0 b	0.0 b	95.0 a	76.7 a	70.0 a	0.0 a
5	Command Regiment Dyne-A-Pak	0.8 pt/a 0.5 oz/a 1.5 % v/v	95.0 a	76.7 a	56.7 b	95.0 a	95.0 a	95.0 a	76.7 a	63.3 a	0.0 a
6	Command Regiment Kinetic	0.8 pt/a 0.5 oz/a 0.25 % v/v	95.0 a	76.7 a	53.3 b	95.0 a	95.0 a	95.0 a	76.7 a	60.0 a	0.0 a
LSD (P=.05)			2.14	0.00	5.42	0.00	0.00	0.00	0.00	12.72	0.00
Standard Deviation			1.18	0.00	2.98	0.00	0.00	0.00	0.00	6.99	0.00
CV			1.24	0.0	4.44	0.0	0.0	0.0	0.0	10.85	0.0
Bartlett's X2			0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.617	0.0
P(Bartlett's X2)			.	1.00	1.00	.	.	.	1.00	0.656	.
Replicate F			1.000	0.000	17.500	0.000	0.000	0.000	0.000	1.818	0.000
Replicate Prob(F)			0.4019	1.0000	0.0005	1.0000	1.0000	1.0000	1.0000	0.2121	1.0000
Treatment F			1.000	0.000	57.625	0.000	0.000	0.000	0.000	0.727	0.000
Treatment Prob(F)			0.4651	1.0000	0.0001	1.0000	1.0000	1.0000	1.0000	0.6187	1.0000

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.

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Pest Code	LEFPA	SEBEX	SEBEX	SEBEX	SEBEX	CYPIR	CYPIR	CYPIR	CYPIR			
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P			
Rating Date	7/18/06	5/30/06	6/22/06	7/3/06	7/18/06	5/30/06	6/10/06	6/22/06	7/3/06			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%	%	%	%	%			
Days After First/Last Applic.	54 28	5 5	28 2	39 13	54 28	5 5	16 16	28 2	39 13			
Trt-Eval Interval	28 DA-C	5 DA-A	6 DA-B	13 DA-C	28 DA-C	5 DA-A	16 DA-A	6 DA-B	13 DA-C			
Plant-Eval Interval	54 DP-1	5 DP-1	28 DP-1	39 DP-1	54 DP-1	5 DP-1	16 DP-1	28 DP-1	39 DP-1			
Trt No.	Treatment Name	Rate	Unit	10	11	12	13	14	15	16	17	18
1	Command Regiment Kinetic 32% UAN	0.8 0.5 0.25 2	pt/a oz/a % v/v % v/v	0.0 a	0.0 a	91.7 b	80.0 b	91.7 b	0.0 a	0.0 a	30.0 b	93.3 a
2	Command Regiment Dyne-A-Pak	0.8 0.5 1.5	pt/a oz/a % v/v	0.0 a	0.0 a	95.0 a	80.0 b	95.0 a	0.0 a	0.0 a	30.0 b	91.7 a
3	Command Regiment Kinetic	0.8 0.5 0.25	pt/a oz/a % v/v	0.0 a	0.0 a	95.0 a	80.0 b	95.0 a	0.0 a	0.0 a	53.3 a	93.3 a
4	Command Regiment Dyne-A-Pak	0.8 0.5 1.5	pt/a oz/a % v/v	0.0 a	0.0 a	0.0 c	0.0 c	0.0 c	0.0 a	0.0 a	0.0 c	0.0 b
5	Command Regiment Dyne-A-Pak	0.8 0.5 1.5	pt/a oz/a % v/v	0.0 a	0.0 a	0.0 c	85.0 a	95.0 a	0.0 a	0.0 a	0.0 c	90.0 a
6	Command Regiment Kinetic	0.8 0.5 0.25	pt/a oz/a % v/v	0.0 a	0.0 a	0.0 c	85.0 a	95.0 a	0.0 a	0.0 a	0.0 c	90.0 a
LSD (P=.05)				0.00	0.00	2.14	0.00	2.14	0.00	0.00	4.29	6.36
Standard Deviation				0.00	0.00	1.18	0.00	1.18	0.00	0.00	2.36	3.50
CV				0.0	0.0	2.51	0.0	1.5	0.0	0.0	12.48	4.58
Bartlett's X2				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.639
P(Bartlett's X2)				0.457
Replicate F				0.000	0.000	1.000	0.000	1.000	0.000	0.000	1.000	11.364
Replicate Prob(F)				1.0000	1.0000	0.4019	1.0000	0.4019	1.0000	1.0000	0.4019	0.0027
Treatment F				0.000	0.000	5715.400	0.000	3207.400	0.000	0.000	270.400	344.295
Treatment Prob(F)				1.0000	1.0000	0.0001	1.0000	0.0001	1.0000	1.0000	0.0001	0.0001

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