

LSU Northeast Research Station

Regiment plus Permit for weed control in drill-seeded rice.

Trial ID: SJ06R016
Location:

Protocol ID: SJ06R016
Study Director:
Investigator: Bill Williams

General Trial Information

Investigator: Bill Williams

Conclusions:

Regiment plus Permit controlled barnyardgrass, sesbania, Texasweed, eclipta and rice flatsedge. Amazon sprangletop was not controlled.

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
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 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 Type	W Weed	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG	W Weed		
Pest Code	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG	LEFPA		
Pest Name	Common barn>	Common barn>	Common barn>	Common barn>	Common barn>	Common barn>	Amazon spr>		
Crop Code									
BBCH Scale									
Crop Name									
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P		
Rating Date	5/31/06	6/10/06	6/22/06	6/26/06	7/18/06	5/31/06			
Rating Data Type									
Rating Unit									
Days After First/Last Applic.	6 6	16 16	28 2	32 6	54 28	6 6			
Trt-Eval Interval	6 DA-A	16 DA-A	6 DA-B	6 DA-C	28 DA-C	6 DA-A			
Plant-Eval Interval	6 DP-1	16 DP-1	28 DP-1	32 DP-1	54 DP-1	6 DP-1			
ARM Action Codes									
Number of Decimals									
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6
1	Command Regiment Permit Kinetic 32% UAN	0.8 0.5 0.5 0.25 2	pt/a oz/a oz/a % v/v % v/v	95.0 a	91.7 a	90.0 a	85.0 a	81.7 a	95.0 a
2	Command Regiment Permit Kinetic 32% UAN	1.33 0.5 0.5 0.25 2	pt/a oz/a oz/a % v/v % v/v	95.0 a	91.7 a	90.0 a	88.3 a	85.0 a	95.0 a
3	Command Regiment Permit Kinetic 32% UAN	0.8 0.6 0.6 0.25 2	pt/a oz/a oz/a % v/v % v/v	95.0 a	91.7 a	83.3 a	88.3 a	83.3 a	95.0 a
4	Command Regiment Permit Kinetic 32% UAN	1.33 0.6 0.6 0.25 2	pt/a oz/a oz/a % v/v % v/v	95.0 a	91.7 a	83.3 a	86.7 a	88.3 a	95.0 a
5	nontreated			0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b
6	Command Regiment Permit Dyne-A-Pak Clincher Agridex	1.33 0.4 0.5 1.5 15 1	pt/a oz/a oz/a % v/v oz/a qt/a	95.0 a	91.7 a	90.0 a	90.0 a	90.0 a	95.0 a
LSD (P=.05)		0.00		2.14	5.67	6.14	6.57	0.00	
Standard Deviation		0.00		1.18	3.12	3.37	3.61	0.00	
CV		0.0		1.54	4.28	4.62	5.06	0.0	
Bartlett's X2		0.0		0.0	0.05	1.374	2.144	0.0	
P(Bartlett's X2)		.		1.00	0.975	0.712	0.709	.	
Replicate F		0.000		25.000	4.429	1.585	10.319	0.000	
Replicate Prob(F)		1.0000		0.0001	0.0419	0.2523	0.0037	1.0000	
Treatment F		0.000		3025.000	395.543	338.171	283.255	0.000	
Treatment Prob(F)		1.0000		0.0001	0.0001	0.0001	0.0001	1.0000	

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Pest Type	LEFPA	LEFPA	LEFPA	LEFPA	SEBEX	SEBEX
Pest Code	Amazon spr>	Amazon spr>	Amazon spr>	Amazon spr>	Hemp sesban>	Hemp sesban>
Pest Name						
Crop Code						
BBCH Scale						
Crop Name						
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date	6/10/06	6/22/06	7/3/06	7/18/06	5/31/06	6/22/06
Rating Data Type						
Rating Unit						
Days After First/Last Applic.	16 16	28 2	39 13	54 28	6 6	28 2
Trt-Eval Interval	16 DA-A	6 DA-B	13 DA-C	28 DA-C	6 DA-A	6 DA-B
Plant-Eval Interval	16 DP-1	28 DP-1	39 DP-1	54 DP-1	6 DP-1	28 DP-1
ARM Action Codes						
Number of Decimals						
Trt Treatment						
No. Name Rate Unit	7	8	9	10	11	12
1 Command 0.8 pt/a	91.7 a	70.0 b	30.0 b	0.0 c	0.0 a	86.7 a
Regiment 0.5 oz/a						
Permit 0.5 oz/a						
Kinetic 0.25 % v/v						
32% UAN 2 % v/v						
2 Command 1.33 pt/a	91.7 a	80.0 a	80.0 a	0.0 c	0.0 a	0.0 b
Regiment 0.5 oz/a						
Permit 0.5 oz/a						
Kinetic 0.25 % v/v						
32% UAN 2 % v/v						
3 Command 0.8 pt/a	91.7 a	30.0 c	30.0 b	53.3 b	0.0 a	0.0 b
Regiment 0.6 oz/a						
Permit 0.6 oz/a						
Kinetic 0.25 % v/v						
32% UAN 2 % v/v						
4 Command 1.33 pt/a	91.7 a	66.7 b	86.7 a	56.7 b	0.0 a	0.0 b
Regiment 0.6 oz/a						
Permit 0.6 oz/a						
Kinetic 0.25 % v/v						
32% UAN 2 % v/v						
5 nontreated	0.0 b	0.0 d	0.0 c	0.0 c	0.0 a	0.0 b
6 Command 1.33 pt/a	91.7 a	75.0 ab	85.0 a	85.0 a	0.0 a	0.0 b
Regiment 0.4 oz/a						
Permit 0.5 oz/a						
Dyne-A-Pak 1.5 % v/v						
Clincher 15 oz/a						
Agridex 1 qt/a						
LSD (P=.05)	2.14	7.36	11.34	9.54	0.00	4.29
Standard Deviation	1.18	4.05	6.24	5.24	0.00	2.36
CV	1.54	7.55	12.01	16.14	0.0	16.32
Bartlett's X2	0.0	0.307	0.481	1.589	0.0	0.0
P(Bartlett's X2)	1.00	0.579	0.488	0.452	.	.
Replicate F	25.000	1.610	2.286	1.970	0.000	1.000
Replicate Prob(F)	0.0001	0.2476	0.1522	0.1900	1.0000	0.4019
Treatment F	3025.000	183.949	104.093	151.485	0.000	676.000
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	1.0000	0.0001

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Pest Type Pest Code Pest Name Crop Code BBCH Scale Crop Name Part Rated Rating Date Rating Data Type Rating Unit Days After First/Last Applic. Trt-Eval Interval Plant-Eval Interval ARM Action Codes Number of Decimals	SEBEX Hemp sesban>	SEBEX Hemp sesban>	SEBEX Hemp sesban>	W Weed CNPPA Texasweed	CNPPA Texasweed	CNPPA Texasweed	CNPPA Texasweed	W Weed ECLAL Eclipta
	PLATOT P 6/26/06	PLATOT P 7/3/06	PLATOT P 7/18/06	PLATOT P 6/22/06	PLATOT P 6/26/06	PLATOT P 7/3/06	PLATOT P 7/18/06	PLATOT P 6/22/06
	32 6 6 DA-C 32 DP-1	39 13 13 DA-C 39 DP-1	54 28 28 DA-C 54 DP-1	28 2 6 DA-B 28 DP-1	32 6 6 DA-C 32 DP-1	39 13 13 DA-C 39 DP-1	54 28 28 DA-C 54 DP-1	28 2 6 DA-B 28 DP-1
Trt Treatment No. Name Rate Unit	13	14	15	16	17	18	19	20
1 Command 0.8 pt/a Regiment 0.5 oz/a Permit 0.5 oz/a Kinetic 0.25 % v/v 32% UAN 2 % v/v	93.3 a	95.0 a	90.0 a	66.7 b	80.0 a	86.7 a	90.0 a	81.7 a
2 Command 1.33 pt/a Regiment 0.5 oz/a Permit 0.5 oz/a Kinetic 0.25 % v/v 32% UAN 2 % v/v	88.3 a	95.0 a	93.3 a	0.0 c	76.7 a	86.7 a	90.0 a	0.0 b
3 Command 0.8 pt/a Regiment 0.6 oz/a Permit 0.6 oz/a Kinetic 0.25 % v/v 32% UAN 2 % v/v	26.7 b	70.0 a	88.3 a	0.0 c	0.0 b	83.3 a	86.7 ab	0.0 b
4 Command 1.33 pt/a Regiment 0.6 oz/a Permit 0.6 oz/a Kinetic 0.25 % v/v 32% UAN 2 % v/v	0.0 b	60.0 a	93.3 a	0.0 c	0.0 b	63.3 b	80.0 b	0.0 b
5 nontreated	0.0 b	0.0 b	0.0 b	0.0 c	0.0 b	0.0 c	0.0 c	0.0 b
6 Command 1.33 pt/a Regiment 0.4 oz/a Permit 0.5 oz/a Dyne-A-Pak 1.5 % v/v Clincher 15 oz/a Agridex 1 qt/a	0.0 b	93.3 a	93.3 a	71.7 a	76.7 a	88.3 a	86.7 ab	86.7 a
LSD (P=.05)	33.78	37.64	6.98	4.60	6.36	5.42	6.36	6.98
Standard Deviation	18.57	20.69	3.84	2.53	3.50	2.98	3.50	3.84
CV	53.47	30.03	5.02	10.96	8.99	4.38	4.84	13.68
Bartlett's X2	11.062	9.323	3.058	0.857	0.0	1.746	0.0	0.148
P(Bartlett's X2)	0.004*	0.009*	0.548	0.355	1.00	0.782	1.00	0.70
Replicate F	1.382	2.028	2.358	1.522	0.455	8.125	0.455	1.226
Replicate Prob(F)	0.2952	0.1823	0.1448	0.2649	0.6472	0.0080	0.6472	0.3339
Treatment F	17.390	9.513	286.283	600.217	445.818	404.406	310.545	385.453
Treatment Prob(F)	0.0001	0.0015	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Pest Type	ECLAL	ECLAL	ECLAL	W Weed CYPIR	CYPIR	CYPIR	CYPIR	CYPES
Pest Code	Eclipta	Eclipta	Eclipta	Rice flatse>	Rice flatse>	Rice flatse>	Rice flatse>	Yellow nuts>
Pest Name								
Crop Code								
BBCH Scale								
Crop Name								
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date	6/26/06	7/3/06	7/18/06	6/22/06	6/26/06	7/3/06	7/18/06	6/22/06
Rating Data Type								
Rating Unit								
Days After First/Last Applic.	32 6	39 13	54 28	28 2	32 6	39 13	54 28	28 2
Trt-Eval Interval	6 DA-C	13 DA-C	28 DA-C	6 DA-B	6 DA-C	13 DA-C	28 DA-C	6 DA-B
Plant-Eval Interval	32 DP-1	39 DP-1	54 DP-1	28 DP-1	32 DP-1	39 DP-1	54 DP-1	28 DP-1
ARM Action Codes								
Number of Decimals								
Trt Treatment								
No. Name	21	22	23	24	25	26	27	28
Rate								
Unit								
1 Command	76.7 b	93.3 a	91.7 a	83.3 a	86.7 a	95.0 a	95.0 a	80.0 a
Regiment								
Permit								
Kinetic								
32% UAN								
2 Command	75.0 b	93.3 a	91.7 a	0.0 b	71.7 b	86.7 b	95.0 a	0.0 b
Regiment								
Permit								
Kinetic								
32% UAN								
3 Command	0.0 c	70.0 b	88.3 a	0.0 b	0.0 c	63.3 c	95.0 a	0.0 b
Regiment								
Permit								
Kinetic								
32% UAN								
4 Command	0.0 c	0.0 c	85.0 a	0.0 b	0.0 c	0.0 d	93.3 a	0.0 b
Regiment								
Permit								
Kinetic								
32% UAN								
5 nontreated	0.0 c	0.0 c	0.0 b	0.0 b	0.0 c	0.0 d	0.0 b	0.0 b
6 Command	86.7 a	90.0 a	91.7 a	85.0 a	81.7 a	95.0 a	95.0 a	76.7 a
Regiment								
Permit								
Dyne-A-Pak								
Clincher								
Agridex								
LSD (P=.05)	7.36	13.96	6.57	5.67	5.51	5.75	2.14	4.29
Standard Deviation	4.05	7.67	3.61	3.12	3.03	3.16	1.18	2.36
CV	10.19	13.28	4.84	11.11	7.57	5.58	1.49	9.03
Bartlett's X2	0.05	7.51	4.468	0.04	1.291	0.0	0.0	0.0
P(Bartlett's X2)	0.975	0.023*	0.346	0.842	0.524	1.00	.	.
Replicate F	0.593	0.377	7.128	1.000	0.455	1.667	1.000	1.000
Replicate Prob(F)	0.5709	0.6950	0.0119	0.4019	0.6472	0.2373	0.4019	0.4019
Treatment F	349.509	105.887	309.553	583.000	636.000	618.333	3227.200	884.200
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Pest Type				
Pest Code	CYPES	CYPES		
Pest Name	Yellow nuts>	Yellow nuts>		
Crop Code			ORYSA	ORYSA
BBCH Scale			BRIC	BRIC
Crop Name			Common rice	Common rice
Part Rated	PLATOT P	PLATOT P	GRAIN C	GRAIN C
Rating Date	6/26/06	7/3/06	9/13/06	9/13/06
Rating Data Type			YIELD	YIELD
Rating Unit			lb/plt	BU
Days After First/Last Applic.	32 6	39 13	111 85	111 85
Trt-Eval Interval	6 DA-C	13 DA-C		
Plant-Eval Interval	32 DP-1	39 DP-1	111 DP-1	111 DP-1
ARM Action Codes				TY1
Number of Decimals				0
Trt Treatment				
No. Name Rate Unit	29	30	31	32
1 Command 0.8 pt/a	83.3 a	85.0 c	4.40 b	64 b
Regiment 0.5 oz/a				
Permit 0.5 oz/a				
Kinetic 0.25 % v/v				
32% UAN 2 % v/v				
2 Command 1.33 pt/a	76.7 a	95.0 a	5.90 a	85 a
Regiment 0.5 oz/a				
Permit 0.5 oz/a				
Kinetic 0.25 % v/v				
32% UAN 2 % v/v				
3 Command 0.8 pt/a	20.0 b	80.0 d	5.67 a	82 a
Regiment 0.6 oz/a				
Permit 0.6 oz/a				
Kinetic 0.25 % v/v				
32% UAN 2 % v/v				
4 Command 1.33 pt/a	0.0 b	60.0 e	4.33 b	63 b
Regiment 0.6 oz/a				
Permit 0.6 oz/a				
Kinetic 0.25 % v/v				
32% UAN 2 % v/v				
5 nontreated	0.0 b	0.0 f	0.00 c	0 c
6 Command 1.33 pt/a	80.0 a	90.0 b	6.60 a	96 a
Regiment 0.4 oz/a				
Permit 0.5 oz/a				
Dyne-A-Pak 1.5 % v/v				
Clincher 15 oz/a				
Agridex 1 qt/a				
LSD (P=.05)	24.63	0.00	1.072	15.5
Standard Deviation	13.54	0.00	0.589	8.5
CV	31.25	0.0	13.14	13.14
Bartlett's X2	5.354	0.0	0.789	0.789
P(Bartlett's X2)	0.069	.	0.94	0.94
Replicate F	2.455	0.000	0.668	0.668
Replicate Prob(F)	0.1358	1.0000	0.5343	0.5343
Treatment F	27.345	0.000	48.445	48.446
Treatment Prob(F)	0.0001	1.0000	0.0001	0.0001

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ARM Action Codes

TY1 = 14.48333*[C31]