

LSU Northeast Research Station

Evaluation of V-10142 for postemergence sprangletop activity.

Trial ID: SJ06R021
Location:

Protocol ID: SJ06R021
Study Director:
Investigator: Bill Williams

General Trial Information

Investigator: Bill Williams

Crop Description

Crop 1: ORYSA Oryza sativa Common rice
Variety: Cocodrie
BBCH Scale: BRIC
Planting Method: DRILLED
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: MEDIUM
Soil Moisture: DRY
Planting Date: 4/25/06
Rate, Unit: 100 LB/A
Emergence Date: 5/6/06
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: Hemp sesbania
Pest 4 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

Maintenance

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

Soil Description

Description Name: Bay 3 - North End
% Sand: 26 **% OM:** 2.23 **Texture:** Clay
% Silt: 32 **pH:** 6.98 **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.	4/26/06	5:00 am	0.62	In	Rain	7	Hou
2.	4/26/06	10:00 p				3	Hou
3.	4/27/06	8:00 am	0.15	In	Rain	1	Hou
4.	4/30/06	8:30 am	1.19	In	Rain	1	Hou
5.	5/5/06	8:00 pm	1.49	In	Rain	1	Hou
6.	5/5/06	4:00 am				4	Hou
7.	5/6/06	8:00 am	0.31	In	Rain	3.5	Hou
8.	5/7/06	11:00 a	1.06	In	Rain	4	Hou
9.	5/7/06	12:00 p				2	Hou
10.	5/9/06	7:00 pm	0.39	In	Rain	0.75	Hou
11.	5/11/06	7:15 pm	0.2	In	Rain	0.5	Hou
12.	5/15/06	10:00 a	0.21	In	Rain	1	Hou
13.	5/19/06				Flush		
14.	5/27/06				Flush		
15.	5/28/06	5:00 pm	0.18	In	Rain	1	Hou
16.	5/29/06	2:30 pm	0.46	In	Rain	2.5	Hou
17.	5/30/06	1:30 pm	0.79	In	Rain	3	Hou
18.	6/2/06	6:30 pm	0.03	In	Rain	1	Hou
19.	6/7/06				Fertilize		
20.	6/7/06				Perment Flood		
21.	6/17/06	7:00 pm	0.03	In	Rain	1	Hou
22.	6/18/06	10:00 p	0.01	In	Rain	1	Hou
23.	6/19/06	10:00 p	0.05	In	Rain	1	Hou
24.	6/20/06	2:30 pm	0.19	In	Rain	1	Hou
25.	6/24/06	9:00 pm	0.07	In	Rain	1	Hou
26.	7/3/06	1:00 pm	0.07	In	Rain	0.5	Hou
27.	7/4/06	3:00 pm	0.69	In	Rain	1.5	Hou
28.	7/4/06	7:00 am				1	Hou
29.	7/5/06	12:00 a	1.25	In	Rain	0.75	Hou
30.	7/5/06	6:00pm				1.5	Hou
31.	7/6/06	6:00 pm	0.35	In	Rain	3.5	Hou
32.	7/11/06	2:00 pm	0.45	In	Rain	2	Hou

Application Description

	A	B	C	D
Application Date:	5/3/06	5/15/06	5/22/06	5/27/06
Time of Day:	10:00	9:00	9:00	6:30am
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	DPRE/PRE	EPOST	MPOST	LPOST
Application Placement:	BROSIOI	BROFOL	BROFOL	BROFOL
Air Temperature, Unit:	85 F	66 F	87 F	74 F
% Relative Humidity:	63	50	65	86
Wind Velocity, Unit:	3 MPH	4 MPH	0 MPH	1 MPH
Wind Direction:	S	S		SE
Soil Temperature, Unit:	82 F	70 F	83 F	79 F
Soil Moisture:	Damp	DAMP	WET	DRY
% Cloud Cover:	20	30	40	0

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Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	ORYSA BRIC	ORYSA BRIC	ORYSA BRIC	ORYSA BRIC
Stage Scale Used:	BBCH	BBCH	BBCH	BBCH
Stage Majority, Percent:	N/A	2-3 LF 100	3-4 LF 100	4-5 LF 100
Height, Unit:		2.5 IN	4.5 IN	4.5 IN
Height Minimum, Maximum:		2 3	4 5	4 5

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:	N/A	1-2 LF 100	2-3 LF 100	3 lf 100
Height, Unit:		1.5 IN	3 IN	4 IN
Height Minimum, Maximum:		1 2	2 4	4 4
Pest 2 Code, Disc., Scale:	LEFPA W	LEFPA W	LEFPA W	LEFPA W
Stage Majority, Percent:	N/A	3 LF 100	2-4 LF 100	3-4 LF 100
Height, Unit:		1.5 IN	3 IN	4 IN
Height Minimum, Maximum:		1 2	2 4	4 4
Pest 3 Code, Disc., Scale:	SEBEX W	SEBEX W	SEBEX W	SEBEX W
Stage Majority, Percent:	N/A	N/A	1 LF 100	2 LF 100
Height, Unit:			1 IN	2 IN
Height Minimum, Maximum:			1 1	2 2
Pest 4 Code, Disc., Scale:	CYPIR W	CYPIR W	CYPIR W	CYPIR W
Stage Majority, Percent:	N/A	4-5 LF 100	4-5 LF 100	
Height, Unit:		7 IN	7 IN	7 IN
Height Minimum, Maximum:		6 8	6 8	6 8

Application Equipment

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

LSU Northeast Research Station

Pest Code	LEFPA	LEFPA	LEFPA	LEFPA	LEFPA	LEFPA	LEFPA	LEFPA	LEFPA	LEFPA
Crop Code										
BBCH Scale										
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date	5/19/06	5/23/06	5/31/06	6/6/06	6/15/06	7/3/06	7/11/06	7/21/06	7/25/06	
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%	%	%	%
Days After First/Last Applic.	16 4	20 1	28 4	34 10	43 19	61 37	69 45	79 55	83 59	
Trt-Eval Interval	16 DA-A	8 DA-B	9 DA-C	10 DA-D	19 DA-D	37 DA-D	45 DA-D	55 DA-D	59 DA-D	
Plant-Eval Interval	24 DP-1	28 DP-1	36 DP-1	42 DP-1	51 DP-1	69 DP-1	77 DP-1	87 DP-1	91 DP-1	
ARM Action Codes										
Number of Decimals										
Trt Treatment										
No. Name	1	2	3	4	5	6	7	8	9	
Rate Unit										
11 Facet	0.5 lb ai/a									
Regiment	0.4 oz/a									
Prowl H2O	1 lb ai/a									
V-10142	0.1 lb ai/a									
Dyne-A-Pak	1.5 % v/v									
12 Facet	0.5 lb ai/a									
Regiment	0.4 oz/a									
Prowl H2O	1 lb ai/a									
V-10142	0.2 lb ai/a									
Dyne-A-Pak	1.5 % v/v									
13 Clincher	10 oz/a									
COC	1 qt/a									
Clincher	15 oz/a									
COC	1 qt/a									
14 Facet	0.5 lb ai/a									
LSD (P=.05)	5.03	4.91	10.54	6.44	21.17	32.43	14.19	11.08	3.85	
Standard Deviation	3.00	2.93	6.28	3.83	12.61	19.32	8.45	6.60	2.29	
CV	5.31	9.64	13.52	7.82	35.19	59.01	28.99	21.83	7.74	
Bartlett's X2	0.0	0.079	4.526	0.06	17.84	25.909	8.227	14.335	2.213	
P(Bartlett's X2)	0.001*	0.994	0.606	1.00	0.001*	0.001*	0.042*	0.002*	0.697	
Replicate F	39.000	0.626	2.220	0.040	1.149	1.958	2.157	1.529	4.409	
Replicate Prob(F)	0.0001	0.5428	0.1288	0.9604	0.3325	0.1614	0.1359	0.2355	0.0225	
Treatment F	0.265	631.000	137.491	319.402	30.691	12.405	70.363	124.113	994.652	
Treatment Prob(F)	0.9923	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.

LSU Northeast Research Station

Pest Code		ORYSA	ORYSA
Crop Code		BRIC	BRIC
BBCH Scale		GRAIN C	GRAIN C
Part Rated		9/13/06	9/13/06
Rating Date		YIELD	YIELD
Rating Data Type		lb/plot	BU
Rating Unit		133 109	133 109
Days After First/Last Applic.		141 DP-1	141 DP-1
Trt-Eval Interval			TY1
Plant-Eval Interval			0
ARM Action Codes			
Number of Decimals			
Trt No.	Treatment	Rate	Unit
1	Facet	0.5 lb ai/a	2.10 f
	Regiment	0.3 oz/a	33 f
	Prowl H2O	1 lb ai/a	
	Dyne-A-Pak	1.5 % v/v	
2	Facet	0.5 lb ai/a	9.00 a
	Regiment	0.3 oz/a	144 a
	Prowl H2O	1 lb ai/a	
	V-10142	0.5 lb ai/a	
	Dyne-A-Pak	1.5 % v/v	
3	Facet	0.5 lb ai/a	7.87 b
	Regiment	0.3 oz/a	125 b
	Prowl H2O	1 lb ai/a	
	V-10142	0.1 lb ai/a	
	Dyne-A-Pak	1.5 % v/v	
4	Facet	0.5 lb ai/a	8.57 a
	Regiment	0.3 oz/a	137 a
	Prowl H2O	1 lb ai/a	
	V-10142	0.2 lb ai/a	
	Dyne-A-Pak	1.5 % v/v	
5	Facet	0.5 lb ai/a	3.40 e
	Regiment	0.4 oz/a	54 e
	Prowl H2O	1 lb ai/a	
	Dyne-A-Pak	1.5 % v/v	
6	Facet	0.5 lb ai/a	7.43 b
	Regiment	0.4 oz/a	119 b
	Prowl H2O	1 lb ai/a	
	V-10142	0.5 lb ai/a	
	Dyne-A-Pak	1.5 % v/v	
7	Facet	0.5 lb ai/a	4.67 d
	Regiment	0.4 oz/a	74 d
	Prowl H2O	1 lb ai/a	
	V-10142	0.1 lb ai/a	
	Dyne-A-Pak	1.5 % v/v	
8	Facet	0.5 lb ai/a	5.50 c
	Regiment	0.4 oz/a	88 c
	Prowl H2O	1 lb ai/a	
	V-10142	0.2 lb ai/a	
	Dyne-A-Pak	1.5 % v/v	
9	Facet	0.5 lb ai/a	1.13 g
	Regiment	0.4 oz/a	18 g
	Prowl H2O	1 lb ai/a	
	Dyne-A-Pak	1.5 % v/v	
10	Facet	0.5 lb ai/a	4.30 d
	Regiment	0.4 oz/a	69 d
	Prowl H2O	1 lb ai/a	
	V-10142	0.5 lb ai/a	
	Dyne-A-Pak	1.5 % v/v	
11	Facet	0.5 lb ai/a	2.03 f
	Regiment	0.4 oz/a	32 f
	Prowl H2O	1 lb ai/a	
	V-10142	0.1 lb ai/a	
	Dyne-A-Pak	1.5 % v/v	

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Pest Code		ORYSA	ORYSA
Crop Code		BRIC	BRIC
BBCH Scale		GRAIN C	GRAIN C
Part Rated		9/13/06	9/13/06
Rating Date		YIELD	YIELD
Rating Data Type		lb/plot	BU
Rating Unit		133 109	133 109
Days After First/Last Applic.		141 DP-1	141 DP-1
Trt-Eval Interval			TY1
Plant-Eval Interval			0
ARM Action Codes			
Number of Decimals			
Trt No.	Treatment Name	Rate	Unit
12	Facet	0.5 lb ai/a	2.43 f
	Regiment	0.4 oz/a	39 f
	Prowl H2O	1 lb ai/a	
	V-10142	0.2 lb ai/a	
	Dyne-A-Pak	1.5 % v/v	
13	Clincher	10 oz/a	7.87 b
	COC	1 qt/a	125 b
	Clincher	15 oz/a	
	COC	1 qt/a	
14	Facet	0.5 lb ai/a	0.00 h
LSD (P=.05)		0.516	8.2
Standard Deviation		0.307	4.9
CV		6.49	6.49
Bartlett's X2		7.818	7.818
P(Bartlett's X2)		0.799	0.799
Replicate F		0.201	0.204
Replicate Prob(F)		0.8190	0.8169
Treatment F		286.544	286.602
Treatment Prob(F)		0.0001	0.0001

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

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ARM Action Codes

TY1 = 15.95*[C10]