

LSU Northeast Research Station

Evaluation of V-10142 for postemergence sprangletop activity.

Trial ID: MR06R011
Location:

Protocol ID: MR06R011
Study Director:
Investigator: Bill Williams

General Trial Information

Investigator: Bill Williams

Crop Description

Crop 1: ORYSA Oryza sativa Common rice
Variety: CL 161
BBCH Scale: BRIC **Planting Date:** 6/1/06
Planting Method: Drilled **Rate, Unit:** 90 LB/A
Depth, Unit: 0.25 IN
Row Spacing, Unit: 8 IN **Spacing Within Row, Unit:** 5 IN
Seed Bed: MEDIUM
Soil Moisture: DRY

Pest Description

Pest 1 Type: W **Code:** LEFPA Leptochloa panicoides
Common Name: Amazon sprangletop

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: Macon Ridge Research Station
% Sand: 14 **% OM:** 1.3 **Texture:** Silt Loam
% Silt: 70 **pH:** 5.8 **Soil Name:** Gigger Silt Loam
% Clay: 16 **CEC:** 5.8 **Fert. Level:** EXCELLENT

Moisture Conditions

Overall Moisture Conditions: DRY
Closest Weather Station: Macon Ridge Research Station **Distance:** 0.25 **Unit:** IN

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	Date	Amount	Unit	Type
1.	6/8/06			Flush
2.	6/13/06			Flush
3.	6/17/06	0.05	IN	RAIN
4.	6/18/06	0.01	IN	RAIN
5.	6/19/06	0.03	IN	RAIN
6.	6/21/06	0.01	IN	RAIN
7.	6/23/06	0.22	IN	RAIN
8.	6/24/06	0.01	IN	RAIN
9.	7/2/06	0.01	IN	RAIN
10.	7/3/06			Fertilize
11.	7/3/06	0.34	IN	RAIN
12.	7/4/06	0.38	IN	RAIN
13.	7/5/06			Flood
14.	7/5/06	0.33	IN	RAIN
15.	7/6/06	0.06	IN	RAIN
16.	7/7/06	0.01	IN	RAIN
17.	7/16/06	0.07	IN	RAIN
18.	7/19/06	1.25	IN	RAIN
19.	7/20/06	0.01	IN	RAIN
20.	7/22/06	1.37	IN	RAIN
21.	7/23/06	0.01	IN	RAIN
22.	7/26/06	0.14	IN	RAIN
23.	7/27/06	0.24	IN	RAIN
24.	7/28/06	0.01	IN	RAIN

Application Description

	A	B	C	D
Application Date:	6/6/06	6/13/06	6/20/06	6/27/06
Time of Day:	11:00	12:30	10:30	
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	DPRE	EPOST	MPOST	LPOST
Application Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Air Temperature, Unit:	88 F	85 F	85 F	88 F
% Relative Humidity:	61	66	68	34
Wind Velocity, Unit:	2 MPH	5 MPH	2 MPH	7 MPH
Wind Direction:	E	E	SE	N
Soil Temperature, Unit:	79 F	83 F	84 F	86 F
Soil Moisture:	DRY	DRY	WET	DRY
% Cloud Cover:	20	40	100	0

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:		3 LF	4 LF	5-6 LF
Height, Unit:		4 IN	5.5 IN	8 IN
Height Minimum, Maximum:		4 4	5 6	8 8

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Pest Stage At Each Application

	A		B		C		D	
Pest 1 Code, Disc., Scale:	LEFPA	W	LEFPA	W	LEFPA	W	LEFPA	W
Stage Majority, Percent:					3-4 LF		4 LF	
Height, Unit:					2	IN	2	IN
Height Minimum, Maximum:					2	2	2	2

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:	4		4		4		4	
Carrier:	WATER		WATER		WATER		WATER	
Spray Volume, Unit:	15	GPA	15	GPA	15	GPA	15	GPA
Propellant:	CO2		CO2		CO2		CO2	

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Pest Code		LEFPA	LEFPA
Part Rated		PLATOT P	PLATOT P
Rating Date		7/18/06	7/30/06
Rating Data Type		CONTROL	CONTROL
Rating Unit		%	%
Days After First/Last Applic.		42 21	54 33
Trt-Eval Interval		28 DA-C	40 DA-C
Plant-Eval Interval		47 DP-1	59 DP-1
Trt No.	Treatment Name	Rate	Unit
		1	2
1	Facet	0.5 lb ai/a	96.3 a
	Regiment	0.3 oz/a	
	Prowl H2O	1 lb ai/a	
	Dyne-A-Pak	1.5 % v/v	88.3 a
2	Facet	0.5 lb ai/a	96.3 a
	Regiment	0.3 oz/a	
	Prowl H2O	1 lb ai/a	
	V-10142	0.5 lb ai/a	91.7 a
	Dyne-A-Pak	1.5 % v/v	
3	Facet	0.5 lb ai/a	96.3 a
	Regiment	0.3 oz/a	
	Prowl H2O	1 lb ai/a	
	V-10142	0.1 lb ai/a	90.0 a
	Dyne-A-Pak	1.5 % v/v	
4	Facet	0.5 lb ai/a	96.3 a
	Regiment	0.3 oz/a	
	Prowl H2O	1 lb ai/a	
	V-10142	0.2 lb ai/a	91.7 a
	Dyne-A-Pak	1.5 % v/v	
5	Facet	0.5 lb ai/a	78.3 bc
	Regiment	0.4 oz/a	
	Prowl H2O	1 lb ai/a	
	Dyne-A-Pak	1.5 % v/v	71.7 b
6	Facet	0.5 lb ai/a	91.7 ab
	Regiment	0.4 oz/a	
	Prowl H2O	1 lb ai/a	
	V-10142	0.5 lb ai/a	86.7 a
	Dyne-A-Pak	1.5 % v/v	
7	Facet	0.5 lb ai/a	88.3 ab
	Regiment	0.4 oz/a	
	Prowl H2O	1 lb ai/a	
	V-10142	0.1 lb ai/a	66.7 b
	Dyne-A-Pak	1.5 % v/v	
8	Facet	0.5 lb ai/a	88.3 ab
	Regiment	0.4 oz/a	
	Prowl H2O	1 lb ai/a	
	V-10142	0.2 lb ai/a	90.0 a
	Dyne-A-Pak	1.5 % v/v	
9	Facet	0.5 lb ai/a	71.7 c
	Regiment	0.4 oz/a	
	Prowl H2O	1 lb ai/a	
	Dyne-A-Pak	1.5 % v/v	46.7 c
10	Facet	0.5 lb ai/a	86.7 ab
	Regiment	0.4 oz/a	
	Prowl H2O	1 lb ai/a	
	V-10142	0.5 lb ai/a	88.3 a
	Dyne-A-Pak	1.5 % v/v	
11	Facet	0.5 lb ai/a	56.7 d
	Regiment	0.4 oz/a	
	Prowl H2O	1 lb ai/a	
	V-10142	0.1 lb ai/a	53.3 c
	Dyne-A-Pak	1.5 % v/v	

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Days After First/Last Applic.		42 21	54 33
Trt-Eval Interval		28 DA-C	40 DA-C
Plant-Eval Interval		47 DP-1	59 DP-1
Trt No.	Treatment Name	Rate	Unit
		1	2
12	Facet	0.5 lb ai/a	83.3 abc
	Regiment	0.4 oz/a	73.3 b
	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	90.0 ab
	COC	1 qt/a	91.7 a
	Clincher	15 oz/a	
	COC	1 qt/a	
14	Facet	0.5 lb ai/a	0.0 e
LSD (P=.05)		9.68	8.07
Standard Deviation		5.77	4.81
CV		7.21	6.54
Bartlett's X2		12.037	3.541
P(Bartlett's X2)		0.443	0.99
Replicate F		1.676	0.695
Replicate Prob(F)		0.2067	0.5081
Treatment F		59.091	87.097
Treatment Prob(F)		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.