

# LSU Northeast Research Station

## Evaluation of V-10142 for preemergence activity on Amazon sprangletop.

Trial ID: SJ07R021      Protocol ID: SJ07R021  
 Location:                      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 Date: 9/May/07  
 Planting Method: DRILLED                      Rate, Unit: 100 LB/A  
 Depth, Unit: 1 IN  
 Row Spacing, Unit: 8 IN  
 Seed Bed: MEDIUM  
 Soil Moisture: DRY  
 Harvest Equipment: Small plot combine  
 Harvested Width, Unit: 5 FT                      Harvested Length, Unit: 12 FT  
 % Standard Moisture: 12.0

### 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: Bay 4  
 % Sand: 25.2      % OM: 1.8                      Texture: Clay  
 % Silt: 32.8      pH: 7.88                      Soil Name: Tunica Clay  
 % Clay: 42      CEC: 22.4                      Fert. Level: EXCELLENT

### Moisture and Weather Conditions

Overall Moisture Conditions: Dry  
 Closest Weather Station: Northeast Research Station      Distance: 0.5      Unit: MI

Date	Amount	Unit	Type
1. 2/May/07	0.04	IN	
2. 3/May/07	1.24	IN	
3. 13/May/07			FLUSH
4. 15/May/07	0.02	IN	
5. 16/May/07	0.01	IN	
6. 17/May/07	0.01	IN	
7. 21/May/07			FLUSH
8. 3/Jun/07	0.02	IN	
9. 12/Jun/07			FERTILIZE - 300# prilled urea
10. 12/Jun/07			FLOOD
11. 16/Jun/07	0.01	IN	
12. 18/Jun/07	0.02	IN	
13. 19/Jun/07	0.4	IN	
14. 2/Jul/07	0.3	IN	
15. 3/Jul/07	0.06	IN	

16.4/Jul/07 1.14 IN  
17.5/Jul/07 0.31 IN  
18.6/Jul/07 0.27 IN  
19.7/Jul/07 1.39 IN  
20.9/Jul/07 0.36 IN  
21.10/Jul/07 0.01 IN  
22.11/Jul/07 0.27 IN  
23.13/Jul/07 0.3 IN  
24.14/Jul/07 1.96 IN  
25.15/Jul/07 2.8 IN  
26.17/Jul/07 1.56 IN  
27.20/Jul/07 0.93 IN  
28.21/Jul/07 0.1 IN  
29.22/Jul/07 0.01 IN  
30.30/Jul/07 2.35 IN

#### Application Description

**A**

Application Date: 18/May/07  
Application Method: SPRAY  
Application Timing: DPRE  
Application Placement: BROSOI  
Air Temperature, Unit: 67 F  
% Relative Humidity: 45  
Wind Velocity, Unit: 4 MPH  
Wind Direction: N  
Soil Temperature, Unit: 65 F  
% Cloud Cover: 0

#### Crop Stage At Each Application

**A**

Crop 1 Code, BBCH Scale: ORYSA BRIC  
Stage Scale Used: N/A

#### Application Equipment

**A**

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

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Pest Type											
Pest Code				LEFPA	LEFPA	LEFPA	LEFPA	LEFPA	LEFPA	LEFPA	LEFPA
Crop Code											
Part Rated				PLATOT	PPLATOT	PPLATOT	PPLATOT	PPLATOT	PPLATOT	PPLATOT	P
Rating Date				31/May/07	8/Jun/07	15/Jun/07	13/Jul/07	3/Aug/07	13/Aug/07		
Rating Data Type				Control	Control	Control	Control	Control	Control	Control	
Rating Unit				%	%	%	%	%	%	%	
Trt-Eval Interval				13 DA-A	21 DA-A	28 DA-A	56 DA-A	77 DA-A	87 DA-A		
Trt Treatment	Rate	Growth									
No.	Name	Rate Unit	Stage	1	2	3	4	5	6		
1	V-10142	0.1 LB	A/ADPRE	63	c 30	d0	b0	e0	d0		b
	Facet	0.5 LB	A/ADPRE								
2	V-10142	0.2 LB	A/ADPRE	77	b 63	c 80	a 63	d 30	c 0		b
	Facet	0.5 LB	A/ADPRE								
3	V-10142	0.3 LB	A/ADPRE	57	c 60	c 78	a 60	d 30	c 0		b
	Facet	0.5 LB	A/ADPRE								
4	V-10142	0.4 LB	A/ADPRE	80	ab 63	c 82	a 73	c 30	c 0		b
	Facet	0.5 LB	A/ADPRE								
5	Command	0.3 LB	A/ADPRE	85	ab 73	b 80	a 83	b 50	b 0		b
6	Bolero	3 LB	A/ADPRE	88	a 90	a 80	a 90	a 90	a 73		a
7	Facet	0.5 LB	A/ADPRE	0	d 0	e 0	b 0	e 0	d 0		b
8	nontreated			0	d 0	e 0	b 0	e 0	d 0		b
LSD (P=.10)				6.8	6.9	4.8	5.8	0.0	2.9		
Standard Deviation				4.7	4.8	3.4	4.0	0.0	2.0		
CV				8.37	10.14	6.73	8.67	0.0	22.27		
Grand Mean				56.25	47.5	50.0	46.25	28.75	9.17		
Bartlett's X2				0.999	0.971	0.805	0.971	0.0	0.0		
P(Bartlett's X2)				0.963	0.808	0.938	0.808	.	.		
Replicate F				0.141	1.615	9.947	5.444	0.000	1.000		
Replicate Prob(F)				0.8698	0.2338	0.0021	0.0178	1.0000	0.3927		
Treatment F				178.121	146.769	454.947	291.222	0.000	484.000		
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	1.0000	0.0001		

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)

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