

# LSU Northeast Research Station

## Evaluation of V-10142 for residual sprangletop activity.

Trial ID: SJ06R020  
Location:

Protocol ID: SJ06R020  
Study Director:  
Investigator: Bill Williams

### General Trial Information

Investigator: Bill Williams

### Crop Description

**Crop 1:** ORYSA Oryza sativa Common rice  
**Variety:** Cheniere  
**BBCH Scale:** BRIC **Planting Date:** 4/25/06  
**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:** 5/6/06  
**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:** SEBEX Sesbania exaltata  
**Common Name:** Hemp sesbania  
**Pest 3 Type:** W **Code:** COMDI Commelina diffusa  
**Common Name:** Spreading dayflower

### 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:** Factorial

### 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:** 7.98 **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

## LSU Northeast Research Station

	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
Application Date:	5/9/06
Time of Day:	11:00
Application Method:	SPRAY
Application Timing:	1-2 lf
Application Placement:	BROFOL
Air Temperature, Unit:	82 F
% Relative Humidity:	88
Wind Velocity, Unit:	8 MPH
Wind Direction:	S
Soil Temperature, Unit:	76 F
Soil Moisture:	Wet
% Cloud Cover:	80

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## Crop Stage At Each Application

A	
Crop 1 Code, BBCH Scale:	ORYSA BRIC
Stage Scale Used:	BBCH
Stage Majority, Percent:	1 LF 100
Height, Unit:	2 IN
Height Minimum, Maximum:	2 2

## Pest Stage At Each Application

A	
Pest 1 Code, Disc., Scale:	ECHCG W
Stage Majority, Percent:	1 LF 100
Height, Unit:	1.5 IN
Height Minimum, Maximum:	1.5 1.5
Pest 2 Code, Disc., Scale:	SEBEX W
Stage Majority, Percent:	NA
Pest 3 Code, Disc., Scale:	COMDI W
Stage Majority, Percent:	2 LF 100
Height, Unit:	1 IN
Height Minimum, Maximum:	1 1

## 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 Code		LEFPA	LEFPA	LEFPA	LEFPA	ORYSA	ORYSA
Crop Code						BRIC	BRIC
BBCH Scale						GRAIN C	GRAIN C
Part Rated		PLATOT P	PLATOT P	PLATOT P	PLATOT P		
Rating Date		5/19/06	5/23/06	6/6/06	7/3/06	9/13/06	9/13/06
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	YIELD	YIELD
Rating Unit		%	%	%	%	lb/plt	BU
Days After First/Last Applic.		10 10	14 14	28 28	55 55	127 127	127 127
Trt-Eval Interval		10 DA-A	14 DA-A	28 DA-A	55 DA-A	127 DA-A	127 DA-A
Plant-Eval Interval		24 DP-1	28 DP-1	42 DP-1	69 DP-1	141 DP-1	141 DP-1
ARM Action Codes							TY1
Number of Decimals							0
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Unit	1	2	3	4	5	6
1 V-10142	0.1 lb ai/a	95.0 a	76.7 c	73.3 a	76.7 bc	7.77 bc	124 bc
Clincher	15 oz/a						
COC	1 qt/a						
2 V-10142	0.1 lb ai/a	90.0 ab	76.7 c	70.0 a	63.3 d	7.70 bc	123 bc
Regiment	0.25 oz/a						
Dyne-A-Pak	1.5 % v/v						
3 V-10142	0.2 lb ai/a	88.3 b	73.3 c	73.3 a	66.7 cd	6.63 c	106 c
Clincher	15 oz/a						
COC	1 qt/a						
4 V-10142	0.2 lb ai/a	95.0 a	73.3 c	73.3 a	66.7 cd	7.33 bc	117 bc
Regiment	0.25 oz/a						
Dyne-A-Pak	1.5 % v/v						
5 V-10142	0.3 lb ai/a	85.0 c	83.3 abc	78.3 a	83.3 b	8.37 b	133 b
Clincher	15 oz/a						
COC	1 qt/a						
6 V-10142	0.3 lb ai/a	90.0 ab	83.3 abc	83.3 a	80.0 b	8.47 b	135 b
Regiment	0.25 oz/a						
Dyne-A-Pak	1.5 % v/v						
7 V-10142	0.4 lb ai/a	95.0 a	86.7 abc	86.7 a	76.7 bc	8.47 b	135 b
Clincher	15 oz/a						
COC	1 qt/a						
8 V-10142	0.4 lb ai/a	95.0 a	81.7 bc	86.7 a	76.7 bc	8.27 b	132 b
Regiment	0.25 oz/a						
Dyne-A-Pak	1.5 % v/v						
9 Command	1.33 pt/a	95.0 a	95.0 a	88.3 a	95.0 a	9.57 a	153 a
Clincher	15 oz/a						
COC	1 qt/a						
10 Command	1.33 pt/a	80.0 d	91.7 ab	83.3 a	93.3 a	10.17 a	162 a
Regiment	0.25 oz/a						
Dyne-A-Pak	1.5 % v/v						
11 Clincher	15 oz/a	93.3 a	83.3 abc	66.7 a	56.7 d	7.50 bc	120 bc
COC	1 qt/a						
12 Regiment	0.25 oz/a	76.7 e	56.7 d	0.0 b	0.0 e	6.47 c	103 c
Dyne-A-Pak	1.5 % v/v						
LSD (P=.05)		3.18	8.26	12.65	8.63	0.871	13.9
Standard Deviation		1.88	4.88	7.47	5.09	0.514	8.2
CV		2.09	6.09	10.38	7.32	6.38	6.38
Bartlett's X2		1.337	2.015	7.385	5.197	15.356	15.356
P(Bartlett's X2)		0.513	0.996	0.689	0.817	0.167	0.167
Replicate F		3.143	2.305	0.348	8.270	0.892	0.894
Replicate Prob(F)		0.0630	0.1234	0.7096	0.0021	0.4240	0.4235
Treatment F		34.054	12.570	30.376	70.664	13.215	13.216
Treatment Prob(F)		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.

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ARM Action Codes

TY1 = 15.95\*[5]