

# LSU Northeast Research Station

## Evaluation of V10142 for broadleaf and sedge weed control in rice.

Trial ID: SJ06R030	Protocol ID:
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: 4/21/06
Planting Method: DRILLED	Rate, Unit: 100 LB/A
Depth, Unit: 1 IN	
Row Spacing, Unit: 8 IN	
Seed Bed: MEDIUM	Emergence Date: 4/28/06
Soil Moisture: DRY	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: SEBEX	Sesbania exaltata
	Common Name:	Hemp sesbania
Pest 3 Type: W	Code: CNPPA	Caperonia palustris
	Common Name:	Texasweed
Pest 4 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: Randomized Complete Block

### Maintenance

No.	Date	Maintenance Treatment Name	Rate	Rate Unit
1.	6/7/06	Prilled urea	300	LB/A

### Soil Description

Description Name: Bay 3 - South End			
% Sand: 25.2	% OM: 2.07	Texture:	Clay
% Silt: 32.8	pH: 6.87	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
Application Date:	5/3/06
Time of Day:	10:00
Application Method:	SPRAY
Application Timing:	EPOST
Application Placement:	BROFOL
Air Temperature, Unit:	85 F
% Relative Humidity:	63
Wind Velocity, Unit:	3 MPH
Wind Direction:	S
Soil Temperature, Unit:	82 F
Soil Moisture:	Damp
% Cloud Cover:	20

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## Crop Stage At Each Application

A	
Crop 1 Code, BBCH Scale:	ORYSA BRIC
Stage Scale Used:	BBCH
Stage Majority, Percent:	2 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 TILL 100
Height, Unit:	1.5 IN
Height Minimum, Maximum:	1.5 1.5
Pest 2 Code, Disc., Scale:	SEBEX W
Stage Majority, Percent:	2 LF 100
Height, Unit:	1 IN
Height Minimum, Maximum:	1 1
Pest 3 Code, Disc., Scale:	CNPPA W
Stage Majority, Percent:	COT. 100
Height, Unit:	0.5 IN
Height Minimum, Maximum:	0.5 0.5
Pest 4 Code, Disc., Scale:	COMDI W
Stage Majority, Percent:	1 LF 100
Height, Unit:	2 IN
Height Minimum, Maximum:	2 2

## 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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## Evaluation of V10142 for broadleaf and sedge weed control in rice

Trial ID: SJ06R030  
Location:

Protocol ID:  
Study Director:  
Investigator: Bill Williams

Pest Type									W Weed			
Pest Code	ECHCG	ECHCG	ECHCG	SEBEX	SEBEX	SEBEX	SEBEX	CNPPA	CNPPA			
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P		
Rating Date	5/17/06	5/31/06	6/20/06	5/17/06	5/31/06	6/6/06	6/20/06	5/17/06	5/31/06	5/31/06		
Days After First/Last Applic.	14 14	28 28	48 48	14 14	28 28	34 34	48 48	14 14	28 28	28 28		
Trt-Eval Interval	14 DA-A	28 DA-A	48 DA-A	14 DA-A	28 DA-A	34 DA-A	48 DA-A	14 DA-A	28 DA-A	28 DA-A		
Plant-Eval Interval	26 DP-1	40 DP-1	60 DP-1	26 DP-1	40 DP-1	46 DP-1	60 DP-1	26 DP-1	40 DP-1	40 DP-1		
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7	8	9
1	Untreated			0.0 e	0.0 d	0.0 b	0.0 b	0.0 b	0.0 b	0.0 c	0.0 e	0.0 e
2	V-10142 COC	0.1 1	lb ai/a % v/v	40.0 d	0.0 d	0.0 b	83.3 a	88.3 a	86.7 a	86.7 a	40.0 d	85.0 bc
3	V-10142 COC	0.2 1	lb ai/a % v/v	60.0 c	0.0 d	0.0 b	86.7 a	91.7 a	90.0 a	90.0 a	56.7 c	91.7 ab
4	Regiment Kinetic UAN	0.021 0.125 2	lb ai/a % v/v % v/v	91.7 a	71.7 a	30.0 a	88.3 a	91.7 a	78.3 a	86.7 a	63.3 c	88.3 ab
5	V-10142 Regiment Kinetic UAN	0.1 0.021 0.125 2	lb ai/a lb ai/a % v/v % v/v	90.0 a	66.7 a	0.0 b	86.7 a	93.3 a	90.0 a	93.3 a	73.3 b	91.7 ab
6	Facet COC	0.25 1	lb ai/a % v/v	63.3 c	30.0 c	0.0 b	91.7 a	88.3 a	76.7 a	76.7 b	56.7 c	53.3 d
7	V-10142 Facet COC	0.1 0.25 1	lb ai/a lb ai/a % v/v	73.3 b	30.0 c	0.0 b	86.7 a	91.7 a	88.3 a	86.7 a	63.3 c	91.7 ab
8	Aim COC	0.25 1	lb ai/a % v/v	0.0 e	0.0 d	0.0 b	95.0 a	90.0 a	88.3 a	76.7 b	95.0 a	80.0 c
9	V-10142 Aim COC	0.1 0.25 1	lb ai/a lb ai/a % v/v	95.0 a	53.3 b	0.0 b	95.0 a	95.0 a	86.7 a	88.3 a	95.0 a	95.0 a
LSD (P=.05)	5.07	5.27	0.00	8.51	6.84	8.77	6.37	7.26	6.09			
Standard Deviation	2.93	3.04	0.00	4.92	3.95	5.07	3.68	4.19	3.52			
CV	5.13	10.88	0.0	6.21	4.87	6.66	4.83	6.95	4.68			
Bartlett's X2	0.997	0.997	0.0	1.492	5.964	1.842	1.925	0.0	4.069			
P(Bartlett's X2)	0.607	0.607	.	0.914	0.427	0.934	0.927	0.001*	0.54			
Replicate F	0.757	0.100	0.000	0.268	6.400	1.730	5.538	1.474	5.458			
Replicate Prob(F)	0.4853	0.9054	1.0000	0.7683	0.0091	0.2089	0.0149	0.2586	0.0156			
Treatment F	474.514	291.100	0.000	111.541	178.533	97.865	187.385	142.197	231.047			
Treatment Prob(F)	0.0001	0.0001	1.0000	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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Pest Type		CNPPA	CNPPA	COMDI	COMDI	COMDI	COMDI	W Weed
Pest Code		PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	ECLAL
Part Rated								
Rating Date		6/6/06	6/20/06	5/16/06	5/31/06	6/6/06	6/20/06	6/20/06
Days After First/Last Applic.		34 34	48 48	13 13	28 28	34 34	48 48	48 48
Trt-Eval Interval		34 DA-A	48 DA-A	13 DA-A	28 DA-A	34 DA-A	48 DA-A	43 DA-A
Plant-Eval Interval		46 DP-1	60 DP-1	25 DP-1	40 DP-1	46 DP-1	60 DP-1	60 DP-1
Trt Treatment	Rate							
No. Name	Rate Unit	10	11	12	13	14	15	16
1 Untreated		0.0 d	0.0 d	0.0 e	0.0 c	0.0 c	0.0 c	0.0 c
2 V-10142	0.1 lb ai/a	90.0 a	80.0 b	43.3 d	80.0 b	91.7 ab	95.0 a	75.0 b
	COC 1 % v/v							
3 V-10142	0.2 lb ai/a	90.0 a	86.7 a	60.0 c	91.7 a	91.7 ab	95.0 a	91.7 a
	COC 1 % v/v							
4 Regiment	0.021 lb ai/a	76.7 b	33.3 c	85.0 b	90.0 a	85.0 b	91.7 a	90.0 a
	Kinetic 0.125 % v/v							
	UAN 2 % v/v							
5 V-10142	0.1 lb ai/a	90.0 a	91.7 a	80.0 b	86.7 ab	93.3 a	95.0 a	93.3 a
	Regiment 0.021 lb ai/a							
	Kinetic 0.125 % v/v							
	UAN 2 % v/v							
6 Facet	0.25 lb ai/a	56.7 c	0.0 d	60.0 c	0.0 c	0.0 c	0.0 c	76.7 b
	COC 1 % v/v							
7 V-10142	0.1 lb ai/a	86.7 a	90.0 a	56.7 c	91.7 a	91.7 ab	95.0 a	91.7 a
	Facet 0.25 lb ai/a							
	COC 1 % v/v							
8 Aim	0.25 lb ai/a	83.3 ab	0.0 d	95.0 a	85.0 ab	91.7 ab	83.3 b	81.7 b
	COC 1 % v/v							
9 V-10142	0.1 lb ai/a	93.3 a	90.0 a	95.0 a	93.3 a	93.3 a	93.3 a	91.7 a
	Aim 0.25 lb ai/a							
	COC 1 % v/v							
LSD (P=.05)		7.54	5.07	7.07	7.19	4.86	4.16	5.56
Standard Deviation		4.36	2.93	4.08	4.15	2.81	2.41	3.21
CV		5.88	5.58	6.39	6.04	3.96	3.34	4.18
Bartlett's X2		1.047	0.997	0.446	6.034	5.568	1.321	2.286
P(Bartlett's X2)		0.959	0.607	0.80	0.197	0.473	0.517	0.892
Replicate F		0.780	0.757	0.500	4.081	7.882	0.640	1.708
Replicate Prob(F)		0.4749	0.4853	0.6157	0.0370	0.0041	0.5403	0.2127
Treatment F		141.707	652.649	162.625	266.832	618.647	871.840	256.135
Treatment Prob(F)		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)

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