

LSU Northeast Research Station

Evaluation of V-10142 preemergence activity on Texasweed.

Trial ID: SJ06R022
Location:

Protocol ID: SJ06R022
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: 4/24/06
Rate, Unit: 100 LB/A
Emergence Date: 5/4/06
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:** SEBEX Sesbania exaltata
Common Name: Hemp sesbania
Pest 3 Type: W **Code:** CNPPA Caperonia palustris
Common Name: Texasweed

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		Rate	Unit
		Treatment Name	Rate		
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	B
Application Date:	4/28/06	5/27/06
Time of Day:	8:00	6:30am
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	4-5 LF
Application Placement:	BROSOI	BROFOL
Air Temperature, Unit:	67 F	74 F
% Relative Humidity:	52	86
Wind Velocity, Unit:	5 MPH	1 MPH
Wind Direction:	N	SE
Soil Temperature, Unit:	68 F	79 F
Soil Moisture:	Dry	DRY
% Cloud Cover:	40	0

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Crop Stage At Each Application

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

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	ECHCG W	ECHCG W
Stage Majority, Percent:	N/A	3 LF 100
Height, Unit:		2 IN
Height Minimum, Maximum:		2 2
Pest 2 Code, Disc., Scale:	SEBEX W	SEBEX W
Stage Majority, Percent:	N/A	2 LF 100
Height, Unit:		2 IN
Height Minimum, Maximum:		2 2
Pest 3 Code, Disc., Scale:	CNPPA W	CNPPA W
Stage Majority, Percent:	N/A	COT 100

Application Equipment

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

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Pest Type	W Weed	CNPPA	CNPPA	CNPPA	CNPPA	CNPPA	CNPPA	SEBEX	SEBEX	SEBEX
Pest Code	CNPPA	CNPPA	CNPPA	CNPPA	CNPPA	CNPPA	CNPPA	SEBEX	SEBEX	SEBEX
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date	5/5/06	5/12/06	5/19/06	6/2/06	6/22/06	7/21/06	5/5/06	5/12/06	5/19/06	
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit	%	%	%	%	%	%	%	%	%	
Days After First/Last Applic.	7 7	14 14	21 21	35 6	55 26	84 55	7 7	14 14	21 21	
Trt-Eval Interval	7 DA-A	14 DA-A	21 DA-A	35 DA-A	55 DA-A	84 DA-A	7 DA-A	14 DA-A	21 DA-A	
Plant-Eval Interval	11 DP-1	18 DP-1	25 DP-1	39 DP-1	59 DP-1	88 DP-1	11 DP-1	18 DP-1	25 DP-1	
Trt Treatment	Rate									
No. Name	Rate Unit	1	2	3	4	5	6	7	8	9
1 Command Ricestar	1.33 pt/a 22 oz/a	95.0 a	95.0 a	30.0 b	0.0 b	0.0 b	0.0 e	0.0 b	0.0 b	0.0 b
2 Command V-10142 Ricestar	1.33 pt/a 0.5 lb ai/a 22 oz/a	95.0 a	95.0 a	95.0 a	95.0 a	93.3 a	95.0 a	95.0 a	95.0 a	95.0 a
3 Command V-10142 Ricestar	1.33 pt/a 0.1 lb ai/a 22 oz/a	95.0 a	95.0 a	95.0 a	85.0 a	86.7 a	80.0 d	95.0 a	95.0 a	91.7 a
4 Command V-10142 Ricestar	1.33 pt/a 0.2 lb ai/a 22 oz/a	95.0 a	95.0 a	95.0 a	90.0 a	93.3 a	83.3 cd	95.0 a	95.0 a	93.3 a
5 Command V-10142 Ricestar	1.33 pt/a 0.3 lb ai/a 22 oz/a	95.0 a	95.0 a	95.0 a	91.7 a	93.3 a	91.7 ab	95.0 a	95.0 a	93.3 a
6 Command V-10142 Ricestar	1.33 pt/a 0.4 lb ai/a 22 oz/a	95.0 a	95.0 a	95.0 a	93.3 a	93.3 a	88.3 bc	95.0 a	95.0 a	93.3 a
LSD (P=.05)		0.00	0.00	0.00	10.37	5.75	5.16	0.00	0.00	3.95
Standard Deviation		0.00	0.00	0.00	5.70	3.16	2.84	0.00	0.00	2.17
CV		0.0	0.0	0.0	7.52	4.12	3.89	0.0	0.0	2.79
Bartlett's X2		0.0	0.0	0.0	3.701	1.701	1.291	0.0	0.0	1.544
P(Bartlett's X2)		.	.	.	0.296	0.791	0.524	.	.	0.672
Replicate F		0.000	0.000	0.000	0.128	1.667	1.207	0.000	0.000	7.353
Replicate Prob(F)		1.0000	1.0000	1.0000	0.8811	0.2373	0.3392	1.0000	1.0000	0.0109
Treatment F		0.000	0.000	0.000	128.487	425.333	488.035	0.000	0.000	923.059
Treatment Prob(F)		1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	1.0000	1.0000	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 Type					
Pest Code		SEBEX	SEBEX	SEBEX	
Part Rated		PLATOT P	PLATOT P	PLATOT P	
Rating Date		6/2/06	6/22/06	7/21/06	
Rating Data Type		CONTROL	CONTROL	CONTROL	
Rating Unit		%	%	%	
Days After First/Last Applic.		35 6	55 26	84 55	
Trt-Eval Interval		35 DA-A	55 DA-A	84 DA-A	
Plant-Eval Interval		39 DP-1	59 DP-1	88 DP-1	
Trt	Treatment				
No.	Name	Rate	Unit		
				10	11 12
1	Command	1.33	pt/a	0.0 c	0.0 c 0.0 d
	Ricestar	22	oz/a		
2	Command	1.33	pt/a	93.3 a	91.7 a 86.7 a
	V-10142	0.5	lb ai/a		
	Ricestar	22	oz/a		
3	Command	1.33	pt/a	66.7 b	56.7 b 46.7 c
	V-10142	0.1	lb ai/a		
	Ricestar	22	oz/a		
4	Command	1.33	pt/a	85.0 a	86.7 a 66.7 b
	V-10142	0.2	lb ai/a		
	Ricestar	22	oz/a		
5	Command	1.33	pt/a	86.7 a	88.3 a 70.0 b
	V-10142	0.3	lb ai/a		
	Ricestar	22	oz/a		
6	Command	1.33	pt/a	86.7 a	90.0 a 83.3 a
	V-10142	0.4	lb ai/a		
	Ricestar	22	oz/a		
LSD (P=.05)		6.36		7.36	12.28
Standard Deviation		3.50		4.05	6.75
CV		5.01		5.88	11.46
Bartlett's X2		0.985		1.617	1.03
P(Bartlett's X2)		0.912		0.656	0.905
Replicate F		5.909		0.085	0.122
Replicate Prob(F)		0.0202		0.9194	0.8865
Treatment F		306.114		239.932	68.098
Treatment Prob(F)		0.0001		0.0001	0.0001

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