

# LSU Northeast Research Station

## Options for controlling Texasweed in drill-seeded rice.

Trial ID: SJ06R028  
Location:

Protocol ID: SJ06R028  
Study Director:  
Investigator: Bill Williams

### General Trial Information

Investigator: Bill Williams

### Conclusions:

Combinations of Regiment and Grasp with Permit, Londax, Stam and Grandstand were evaluated for Texasweed and sesbania control. Tank mixing either Grasp or Regiment with Permit improved Texasweed control, but not sesbania. However, Grasp and Regiment tank mixes with Londax were superior to tank mixes with Permit at controlling Texasweed. These results were surprising since most studies have indicated the Regiment combinations with Permit were superior to combinations with Londax. While, Grasp was best applied with Londax. Overall, the best Texasweed and Sesbania control was observed from Stam plus Londax plus Permit.

### 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 *Cyperus palustris*  
**Common Name:** Texasweed  
**Pest 4 Type:** W **Code:** COMDI *Commelina diffusa*  
**Common Name:** Spreading dayflower  
**Pest 5 Type:** W **Code:** CYPPIR *Cyperus iria*  
**Common Name:** Rice flatsedge

### 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/AI

### 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:	5/18/06
Time of Day:	11:00
Application Method:	SPRAY
Application Timing:	POST
Application Placement:	BROFOL
Air Temperature, Unit:	85 F
% Relative Humidity:	38
Wind Velocity, Unit:	10 MPH
Wind Direction:	N
Soil Temperature, Unit:	83 F
Soil Moisture:	DRY
% Cloud Cover:	0

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## Crop Stage At Each Application

A	
Crop 1 Code, BBCH Scale:	ORYSA BRIC
Stage Scale Used:	BBCH
Stage Majority, Percent:	3-4 LF 100
Diameter, Unit:	3 IN
Height, Unit:	3 3

## Pest Stage At Each Application

A	
Pest 1 Code, Disc., Scale:	ECHCG W
Stage Majority, Percent:	2-3 LF 100
Height, Unit:	1.5 IN
Height Minimum, Maximum:	1 2
Pest 2 Code, Disc., Scale:	SEBEX W
Stage Majority, Percent:	3-4 LF 100
Height, Unit:	2.5 IN
Height Minimum, Maximum:	2 3
Pest 3 Code, Disc., Scale:	CNPPA W
Stage Majority, Percent:	4 LF 100
Height, Unit:	2.5 IN
Height Minimum, Maximum:	2 3
Pest 4 Code, Disc., Scale:	COMDI W
Stage Majority, Percent:	4 LF 100
Height, Unit:	1.5 IN
Height Minimum, Maximum:	1 2
Pest 5 Code, Disc., Scale:	CYPIR W
Stage Majority, Percent:	6 LF 100
Height, Unit:	7 IN
Height Minimum, Maximum:	6 8

## 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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## Options for controlling Texasweed in drill-seeded rice.

Trial ID: SJ06R028  
Location:

Protocol ID: SJ06R028  
Study Director:  
Investigator: Bill Williams

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	CNPPA	CNPPA	CNPPA	CNPPA	SEBEX	SEBEX	SEBEX		
Pest Name	Texasweed	Texasweed	Texasweed	Texasweed	Hemp sesban>	Hemp sesban>	Hemp sesban>		
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P		
Rating Date	5/31/06	6/6/06	6/15/06	7/18/06	5/31/06	6/6/06	6/15/06		
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit	%	%	%	%	%	%	%		
Days After First/Last Applic.	13 13	19 19	28 28	61 61	13 13	19 19	28 28		
Trt-Eval Interval	13 DA-A	19 DA-A	28 DA-A	61 DA-A	13 DA-A	19 DA-A	28 DA-A		
Plant-Eval Interval	37 DP-1	43 DP-1	52 DP-1	85 DP-1	37 DP-1	43 DP-1	52 DP-1		
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit		
1	Command	1.33 pt/a	0.0 g	0.0 e	0.0 d	0.0 d	0.0 c	0.0 e	0.0 d
2	Command Regiment Dyne-A-Pak	1.33 pt/a 0.5 oz/a 1.5 % v/v	75.0 b	53.3 c	30.0 c	0.0 d	88.3 a	90.0 a	78.3 ab
3	Command Regiment Permit Dyne-A-Pak	1.33 pt/a 0.5 oz/a 0.5 oz/a 1.5 % v/v	63.3 c	85.0 a	53.3 b	50.0 c	91.7 a	91.7 a	83.3 ab
4	Command Regiment Londax Dyne-A-Pak	1.33 pt/a 0.5 oz/a 0.75 oz/a 1.5 % v/v	88.3 a	80.0 ab	86.7 a	83.3 a	93.3 a	90.0 a	78.3 ab
5	Command Grandstand NIS	1.33 pt/a 11 oz/a 0.25 % v/v	56.7 d	56.7 c	53.3 b	0.0 d	56.7 b	63.3 c	46.7 c
6	Command Grasp COC	1.33 pt/a 2.3 oz/a 1 qt/a	50.0 e	30.0 d	30.0 c	0.0 d	85.0 a	88.3 a	75.0 b
7	Command Grasp Permit COC	1.33 pt/a 2.3 oz/a 0.5 oz/a 1 qt/a	56.7 d	63.3 c	53.3 b	50.0 c	91.7 a	91.7 a	88.3 a
8	Command Grasp Londax COC	1.33 pt/a 2.3 oz/a 0.75 oz/a 1 qt/a	76.7 b	88.3 a	83.3 a	83.3 a	91.7 a	91.7 a	88.3 a
9	Command Stam M4	1.33 pt/a 4 qt/a	0.0 g	0.0 e	0.0 d	0.0 d	91.7 a	90.0 a	83.3 ab
10	Command Stam M4 Permit	1.33 pt/a 4 qt/a 0.5 oz/a	86.7 a	75.0 b	76.7 a	56.7 c	93.3 a	90.0 a	85.0 ab
11	Command Stam M4 Londax	1.33 pt/a 4 qt/a 0.75 oz/a	86.7 a	86.7 a	85.0 a	53.3 c	88.3 a	88.3 a	85.0 ab
12	Command Londax COC	1.33 pt/a 1 oz/a 1 % v/v	30.0 f	56.7 c	30.0 c	0.0 d	53.3 b	30.0 d	0.0 d
13	Command Londax Permit COC	1.33 pt/a 0.75 oz/a 0.33 oz/a 1 % v/v	83.3 a	56.7 c	81.7 a	68.3 b	78.3 a	81.7 b	80.0 ab

## LSU Northeast Research Station

Pest Type	W Weed	CNPPA	CNPPA	CNPPA	W Weed	SEBEX	SEBEX	SEBEX	
Pest Code	CNPPA	CNPPA	CNPPA	CNPPA	SEBEX	SEBEX	SEBEX	SEBEX	
Pest Name	Texasweed	Texasweed	Texasweed	Texasweed	Hemp sesban>	Hemp sesban>	Hemp sesban>	Hemp sesban>	
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	
Rating Date	5/31/06	6/6/06	6/15/06	7/18/06	5/31/06	6/6/06	6/15/06	6/15/06	
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit	%	%	%	%	%	%	%	%	
Days After First/Last Applic.	13 13	19 19	28 28	61 61	13 13	19 19	28 28	28 28	
Trt-Eval Interval	13 DA-A	19 DA-A	28 DA-A	61 DA-A	13 DA-A	19 DA-A	28 DA-A	28 DA-A	
Plant-Eval Interval	37 DP-1	43 DP-1	52 DP-1	85 DP-1	37 DP-1	43 DP-1	52 DP-1	52 DP-1	
Trt Treatment	Rate								
No. Name	Rate	Unit	1	2	3	4	5	6	7
14 Command	1.33	pt/a	86.7 a	91.7 a	80.0 a	85.0 a	93.3 a	91.7 a	88.3 a
Stam M4	4	qt/a							
Londax	0.75	oz/a							
Permit	0.25	oz/a							
COC	1	% v/v							
LSD (P=.05)	5.32		5.32	8.23	9.02	6.48	8.79	5.17	7.08
Standard Deviation	3.17		3.17	4.90	5.38	3.86	5.24	3.08	4.21
CV	5.28		5.28	8.34	10.12	10.19	6.69	4.0	6.15
Bartlett's X2	2.808		2.808	3.465	1.511	0.39	7.814	3.422	6.342
P(Bartlett's X2)	0.971		0.971	0.943	0.993	0.996	0.799	0.843	0.85
Replicate F	11.932		11.932	1.213	0.268	1.560	0.673	1.947	4.825
Replicate Prob(F)	0.0002		0.0002	0.3135	0.7671	0.2292	0.5189	0.1630	0.0165
Treatment F	281.151		281.151	114.583	98.992	260.135	74.558	246.884	160.990
Treatment Prob(F)	0.0001		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)  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## LSU Northeast Research Station

Pest Type				
Pest Code				SEBEX
Pest Name				Hemp sesban>
Part Rated				PLATOT P
Rating Date				7/18/06
Rating Data Type				CONTROL
Rating Unit				%
Days After First/Last Applic.				61 61
Trt-Eval Interval				61 DA-A
Plant-Eval Interval				85 DP-1
Trt No.	Treatment Name	Rate	Unit	
				8
1	Command	1.33	pt/a	0.0 c
2	Command	1.33	pt/a	53.3 b
	Regiment	0.5	oz/a	
	Dyne-A-Pak	1.5	% v/v	
3	Command	1.33	pt/a	53.3 b
	Regiment	0.5	oz/a	
	Permit	0.5	oz/a	
	Dyne-A-Pak	1.5	% v/v	
4	Command	1.33	pt/a	50.0 b
	Regiment	0.5	oz/a	
	Londax	0.75	oz/a	
	Dyne-A-Pak	1.5	% v/v	
5	Command	1.33	pt/a	0.0 c
	Grandstand	11	oz/a	
	NIS	0.25	% v/v	
6	Command	1.33	pt/a	75.0 a
	Grasp	2.3	oz/a	
	COC	1	qt/a	
7	Command	1.33	pt/a	75.0 a
	Grasp	2.3	oz/a	
	Permit	0.5	oz/a	
	COC	1	qt/a	
8	Command	1.33	pt/a	73.3 a
	Grasp	2.3	oz/a	
	Londax	0.75	oz/a	
	COC	1	qt/a	
9	Command	1.33	pt/a	73.3 a
	Stam M4	4	qt/a	
10	Command	1.33	pt/a	78.3 a
	Stam M4	4	qt/a	
	Permit	0.5	oz/a	
11	Command	1.33	pt/a	75.0 a
	Stam M4	4	qt/a	
	Londax	0.75	oz/a	
12	Command	1.33	pt/a	0.0 c
	Londax	1	oz/a	
	COC	1	% v/v	
13	Command	1.33	pt/a	53.3 b
	Londax	0.75	oz/a	
	Permit	0.33	oz/a	
	COC	1	% v/v	
14	Command	1.33	pt/a	81.7 a
	Stam M4	4	qt/a	
	Londax	0.75	oz/a	
	Permit	0.25	oz/a	
	COC	1	% v/v	
LSD (P=.05)				8.76
Standard Deviation				5.22
CV				9.85
Bartlett's X2				2.867
P(Bartlett's X2)				0.984

## LSU Northeast Research Station

Pest Type	
Pest Code	SEBEX
Pest Name	Hemp sesban>
Part Rated	PLATOT P
Rating Date	7/18/06
Rating Data Type	CONTROL
Rating Unit	%
Days After First/Last Applic.	61 61
Trt-Eval Interval	61 DA-A
Plant-Eval Interval	85 DP-1
Replicate F	5.659
Replicate Prob(F)	0.0091
Treatment F	103.161
Treatment Prob(F)	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.