

# LSU Northeast Research Station

**Texasweed control in drill-seeded rice with combinations of Grasp plus Londax.**

Trial ID: SJ06R014	Protocol ID: SJ06R014
Location:	Study Director:
	Investigator: Bill Williams

### General Trial Information

**Investigator:** Bill Williams

### Crop Description

<b>Crop 1:</b> ORYSA Oryza sativa	Common rice
<b>Variety:</b> Cocodrie	
<b>BBCH Scale:</b> BRIC	<b>Planting Date:</b> 4/21/06
<b>Planting Method:</b> DRILLED	<b>Rate, Unit:</b> 100 LB/A
<b>Depth, Unit:</b> 1 IN	
<b>Row Spacing, Unit:</b> 8 IN	
<b>Seed Bed:</b> MEDIUM	
<b>Soil Moisture:</b> DRY	<b>Emergence Date:</b> 4/28/06
	<b>Harvest Equipment:</b> Small plot combine
<b>Harvested Width, Unit:</b> 5 FT	<b>Harvested Length, Unit:</b> 12 FT
<b>% Standard Moisture:</b> 12.0	

### Pest Description

<b>Pest 1 Type:</b> W	<b>Code:</b> ECHCG	Echinochloa crus-galli
	<b>Common Name:</b>	Common barnyardgrass
<b>Pest 2 Type:</b> W	<b>Code:</b> SEBEX	Sesbania exaltata
	<b>Common Name:</b>	Hemp sesbania
<b>Pest 3 Type:</b> W	<b>Code:</b> CNPPA	Caperonia palustris
	<b>Common Name:</b>	Texasweed
<b>Pest 4 Type:</b> W	<b>Code:</b> COMDI	Commelina diffusa
	<b>Common Name:</b>	Spreading dayflower

### Site and Design

<b>Plot Width, Unit:</b> 6.67 FT	<b>Site Type:</b> FIELD
<b>Plot Length, Unit:</b> 15 FT	<b>Tillage Type:</b> CONVENTIONAL-TILL
<b>Replications:</b> 3	<b>Study Design:</b> Factorial

### Maintenance

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

### Soil Description

<b>Description Name:</b> Bay 3 - South End			
<b>% Sand:</b> 25.2	<b>% OM:</b> 2.07	<b>Texture:</b>	Clay
<b>% Silt:</b> 32.8	<b>pH:</b> 6.87	<b>Soil Name:</b>	Sharkey
<b>% Clay:</b> 42	<b>CEC:</b> 21.9	<b>Fert. Level:</b>	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.	5/15/06	10:00 a	0.21	In	Rain	1	Hou
2.	5/26/06				Flush		
3.	5/28/06	5:00 pm	0.18	In	Rain	1	Hou
4.	5/29/06	2:30 pm	0.46	In	Rain	2.5	Hou
5.	5/30/06	1:30 pm	0.79	In	Rain	3	Hou
6.	6/2/06	6:30 pm	0.03	In	Rain	1	Hou
7.	6/5/06				Flush		
8.	6/12/06				Flush		
9.	6/17/06	7:00 pm	0.03	In	Rain	1	Hou
10.	6/18/06	10:00 p	0.01	In	Rain	1	Hou
11.	6/19/06	10:00 p	0.05	In	Rain	1	Hou
12.	6/20/06	2:30 pm	0.19	In	Rain	1	Hou
13.	6/24/06	9:00 pm	0.07	In	Rain	1	Hou
14.	6/27/06				Fertilizer		
15.	6/28/06				Permanent Flood		
16.	7/3/06	1:00 pm	0.07	In	Rain	0.5	Hou
17.	7/4/06	3:00 pm	0.69	In	Rain	1.5	Hou
18.	7/4/06	7:00 am				1	Hou
19.	7/5/06	12:00 a	1.25	In	Rain	0.75	Hou
20.	7/5/06	6:00pm				1.5	Hou
21.	7/6/06	6:00 pm	0.35	In	Rain	3.5	Hou
22.	7/11/06	2:00 pm	0.45	In	Rain	2	Hou

### Application Description

A	
Application Date:	5/27/06
Time of Day:	6:30am
Application Method:	SPRAY
Application Timing:	LPOST
Application Placement:	BROFOL
Air Temperature, Unit:	74 F
% Relative Humidity:	86
Wind Velocity, Unit:	1 MPH
Wind Direction:	SE
Soil Temperature, Unit:	79 F
Soil Moisture:	DRY
% Cloud Cover:	0

### Crop Stage At Each Application

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

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## Pest Stage At Each Application

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

## 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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Trial ID: SJ06R014  
Location:

Protocol ID: SJ06R014  
Study Director:  
Investigator: Bill Williams

Pest Type	W Weed	CNPPA	CNPPA	CNPPA	CNPPA	CNPPA	SEBEX	SEBEX	SEBEX	SEBEX
Pest Code	CNPPA	CNPPA	CNPPA	CNPPA	CNPPA	CNPPA	SEBEX	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	5/31/06	6/6/06	6/22/06	6/30/06	7/21/06	5/31/06	6/6/06	6/22/06	6/30/06	6/30/06
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%	%	%	%
Days After First/Last Applic.	4 4	10 10	26 26	34 34	55 55	4 4	10 10	26 26	34 34	34 34
Trt-Eval Interval	4 DA-A	10 DA-A	26 DA-A	34 DA-A	55 DA-A	4 DA-A	10 DA-A	26 DA-A	34 DA-A	34 DA-A
Plant-Eval Interval	40 DP-1	46 DP-1	62 DP-1	70 DP-1	91 DP-1	40 DP-1	46 DP-1	62 DP-1	70 DP-1	70 DP-1
Trt Treatment	Rate									
No. Name	Rate Unit	1	2	3	4	5	6	7	8	9
1 No Grasp Agridex	1 qt/a	0.0 d	0.0 c	0.0 g	0.0 e	0.0 e	0.0 e	0.0 d	0.0 d	0.0 b
2 No Grasp Londax Agridex	0.25 oz/a 1 qt/a	0.0 d	30.0 b	0.0 g	0.0 e	0.0 e	0.0 e	0.0 d	0.0 d	0.0 b
3 No Grasp Londax Agridex	0.5 oz/a 1 qt/a	0.0 d	30.0 b	0.0 g	0.0 e	0.0 e	30.0 d	30.0 c	30.0 c	0.0 b
4 No Grasp Londax Agridex	0.75 oz/a 1 qt/a	0.0 d	30.0 b	30.0 f	0.0 e	0.0 e	30.0 d	30.0 c	30.0 c	0.0 b
5 Grasp Agridex	2.0 oz/a 1 qt/a	30.0 c	33.3 b	0.0 g	0.0 e	0.0 e	56.7 c	83.3 b	81.7 b	80.0 a
6 Grasp Londax Agridex	2.0 oz/a 0.25 oz/a 1 qt/a	31.7 c	65.0 a	43.3 e	56.7 d	63.3 c	80.0 b	88.3 ab	86.7 ab	81.7 a
7 Grasp Londax Agridex	2.0 oz/a 0.5 oz/a 1 qt/a	53.3 a	73.3 a	76.7 c	71.7 bc	70.0 bc	83.3 b	93.3 a	90.0 a	86.7 a
8 Grasp Londax Agridex	2.0 oz/a 0.75 oz/a 1 qt/a	53.3 a	70.0 a	91.7 a	85.0 a	83.3 a	81.7 b	91.7 a	90.0 a	83.3 a
9 Grasp Agridex	2.3 oz/a 1 qt/a	0.0 d	30.0 b	40.0 e	53.3 d	53.3 d	81.7 b	90.0 a	88.3 ab	88.3 a
10 Grasp Londax Agridex	2.3 oz/a 0.25 oz/a 1 qt/a	30.0 c	58.3 a	63.3 d	65.0 c	65.0 c	86.7 ab	91.7 a	86.7 ab	85.0 a
11 Grasp Londax Agridex	2.3 oz/a 0.5 oz/a 1 qt/a	43.3 b	70.0 a	83.3 b	70.0 bc	73.3 b	90.0 a	93.3 a	90.0 a	88.3 a
12 Grasp Londax Agridex	2.3 oz/a 0.75 oz/a 1 qt/a	53.3 a	73.3 a	73.3 c	78.3 ab	83.3 a	86.7 ab	93.3 a	81.7 b	85.0 a
LSD (P=.05)		5.94	10.31	6.06	7.90	6.66	4.76	5.26	4.83	6.70
Standard Deviation		3.51	6.09	3.58	4.67	3.93	2.81	3.11	2.85	3.96
CV		14.27	12.97	8.56	11.67	9.6	4.77	4.75	4.54	7.0
Bartlett's X2		1.076	1.164	1.083	2.395	0.6	2.565	2.522	2.193	1.791
P(Bartlett's X2)		0.898	0.979	0.956	0.792	0.988	0.767	0.925	0.70	0.97
Replicate F		0.508	0.019	2.655	2.009	4.624	1.672	0.216	0.256	1.242
Replicate Prob(F)		0.6088	0.9815	0.0927	0.1580	0.0211	0.2109	0.8077	0.7766	0.3083
Treatment F		132.077	47.462	298.340	181.287	266.298	456.256	458.373	494.349	335.077
Treatment Prob(F)		0.0001	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.

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Pest Type				SEBEX
Pest Code				PLATOT P
Part Rated				7/21/06
Rating Date				CONTROL
Rating Data Type				%
Rating Unit				55 55
Days After First/Last Applic.				55 DA-A
Trt-Eval Interval				91 DP-1
Plant-Eval Interval				
Trt No.	Treatment Name	Rate	Unit	
				10
1	No Grasp Agridex	1 qt/a		0.0 d
2	No Grasp Londax Agridex	0.25 oz/a 1 qt/a		0.0 d
3	No Grasp Londax Agridex	0.5 oz/a 1 qt/a		0.0 d
4	No Grasp Londax Agridex	0.75 oz/a 1 qt/a		0.0 d
5	Grasp Agridex	2.0 oz/a 1 qt/a		80.0 c
6	Grasp Londax Agridex	2.0 oz/a 0.25 oz/a 1 qt/a		81.7 bc
7	Grasp Londax Agridex	2.0 oz/a 0.5 oz/a 1 qt/a		90.0 a
8	Grasp Londax Agridex	2.0 oz/a 0.75 oz/a 1 qt/a		90.0 a
9	Grasp Agridex	2.3 oz/a 1 qt/a		86.7 ab
10	Grasp Londax Agridex	2.3 oz/a 0.25 oz/a 1 qt/a		90.0 a
11	Grasp Londax Agridex	2.3 oz/a 0.5 oz/a 1 qt/a		90.0 a
12	Grasp Londax Agridex	2.3 oz/a 0.75 oz/a 1 qt/a		86.7 ab
LSD (P=.05)				4.94
Standard Deviation				2.92
CV				5.04
Bartlett's X2				0.995
P(Bartlett's X2)				0.803
Replicate F				0.733
Replicate Prob(F)				0.4917
Treatment F				647.667
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.