

# LSU Northeast Research Station

## Amazon sprangletop control with combinations of Clincher and Grasp.

Trial ID: SJ07R025      Protocol ID: SJ07R025  
 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: 9/May/07  
 Planting Method: DRILLED                      Rate, Unit: 100      LB/A  
 Depth, Unit: 1      IN  
 Row Spacing, Unit: 8      IN  
 Seed Bed: MEDIUM  
 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: COMDI      Commelina diffusa  
                             Common Name: Baby dayflower  
 Pest 3 Type: W      Code: SEBEX      Sesbania exaltata  
                             Common Name: Coffeebean  
 Pest 4 Type: W      Code: ALRPH      Alternanthera philoxeroides  
                             Common Name: Alligatorweed  
 Pest 5 Type: W      Code: LEFPA      Leptochloa panicoides  
                             Common Name: Tighthead sprangletop  
 Pest 6 Type: W      Code: CYPES      Cyperus esculentus  
                             Common Name: Chufa

### Site and Design

Plot Width, Unit: 6.67      FT      Site Type: RICE PADDY  
 Plot Length, Unit: 15      FT      Tillage Type: CONVENTIONAL-TILL  
 Replications: 3      Study Design: Randomized Complete Block

### Soil Description

Description Name: Tunica Clay  
 % Sand: 20      % OM: 1.8      Texture: Clay  
 % Silt: 30      pH: 7.88      Soil Name: Tunica Clay  
 % Clay: 50      CEC: 22.4      Fert. Level: EXCELLENT

### Moisture and Weather Conditions

Overall Moisture Conditions: Dry

Closest Weather Station: Northeast Research Station

Distance: 0.5

Unit: MI

Date	Amount	Unit	Type
1. 2/May/07	0.04	IN	
2. 3/May/07	1.24	IN	
3. 14/May/07			FLUSH
4. 15/May/07	0.02	IN	
5. 16/May/07	0.01	IN	
6. 17/May/07	0.01	IN	
7. 21/May/07			FLUSH
8. 3/Jun/07	0.02	IN	
9. 12/Jun/07			FERTILIZE - 300# prilled urea
10. 12/Jun/07			FLOOD
11. 16/Jun/07	0.01	IN	
12. 18/Jun/07	0.02	IN	
13. 19/Jun/07	0.4	IN	
14. 2/Jul/07	0.3	IN	
15. 3/Jul/07	0.06	IN	
16. 4/Jul/07	1.14	IN	
17. 5/Jul/07	0.31	IN	
18. 6/Jul/07	0.27	IN	
19. 7/Jul/07	1.39	IN	
20. 9/Jul/07	0.36	IN	
21. 10/Jul/07	0.01	IN	
22. 11/Jul/07	0.27	IN	
23. 13/Jul/07	0.3	IN	
24. 14/Jul/07	1.96	IN	
25. 15/Jul/07	2.8	IN	
26. 17/Jul/07	1.56	IN	
27. 20/Jul/07	0.93	IN	
28. 21/Jul/07	0.1	IN	
29. 22/Jul/07	0.01	IN	
30. 30/Jul/07	2.35	IN	

Application Description

	A	B	C	D
Application Date:	18/May/07	1/Jan/07	9/Jun/07	21/Jun/07
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	VEPOST	MPOST	3 DPF	POTF
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Air Temperature, Unit:	67 F	85 F	98 F	90 F
% Relative Humidity:	45	41	49	40
Wind Velocity, Unit:	4 MPH	7 MPH	3 MPH	2 MPH
Wind Direction:	N	E	W	N
Soil Temperature, Unit:	65 F	86 F	90 F	90 F
% Cloud Cover:		0		10

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	ORYSA	BRICOR	RYSA	BRICOR
Stage Scale Used:		4-5 LF		TILLERING
Stage Majority, Percent:		5"		18"
Stage Maximum, Percent:		6"		20"

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Disc., Scale:	ECHCG	WECHCG	WECHCG	WECHCG
Stage Majority, Percent:		2-3 LF		
Stage Minimum, Percent:		.5"		
Stage Maximum, Percent:		1"		
Pest 2 Code, Disc., Scale:	COMDI	WCOMDI	WCOMDI	WCOMDI
Stage Majority, Percent:		4-5 LF	5-6 LF	

Stage Minimum, Percent: 1" 1"  
 Stage Maximum, Percent: 1" 2"  
**Pest 3 Code, Disc., Scale:** SEBEX WSEBEX WSEBEX WSEBEX W  
 Stage Majority, Percent: 1-2 LF  
 Stage Minimum, Percent: 1"  
 Stage Maximum, Percent: 1"  
**Pest 4 Code, Disc., Scale:** ALRPH WALRPH WALRPH WALRPH W  
 Stage Majority, Percent: RUNNER  
 Stage Minimum, Percent: 4"  
 Stage Maximum, Percent: 5"  
**Pest 5 Code, Disc., Scale:** LEFPA WLEFPA WLEFPA WLEFPA W  
 Stage Majority, Percent: 5-6 LF 2-3 T HEADIN  
 Stage Minimum, Percent: 3" 4" 12"  
 Stage Maximum, Percent: 4" 5" 14"  
**Pest 6 Code, Disc., Scale:** CYPES WCYPES WCYPES WCYPES W  
 Stage Majority, Percent: 5-6 LF  
 Stage Minimum, Percent: 1"  
 Stage Maximum, Percent: 2"

**Application Equipment**

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

# LSU Northeast Research Station

## Amazon sprangletop control with combinations of Clincher and Grasp.

Trial ID: SJ07R025 Protocol ID: SJ07R025

Location: Study Director:  
Investigator: Bill Williams

Pest Type									
Pest Code				LEFPA	LEFPA	LEFPA	LEFPA	LEFPA	LEFPA
Crop Code									
Part Rated				PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date				14/Jun/07	22/Jun/07	29/Jun/07	6/Jul/07	26/Jul/07	
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	
Trt-Eval Interval				5 DA-C	13 DA-C	8 DA-D	15 DA-D	35 DA-D	
Trt Treatment	Rate	Growth							
No. Name	Rate Unit	Stage	1	2	3	4	5		
1 Facet	0.5 LB A/A	VEPOST0		d 0	f 0	e 0	d 0		d
COC	1 % V/V	VEPOST							
Regiment	0.4 OZ/A	MPOST							
Dyne-A-Pak	1.5 % V/V	MPOST							
2 Facet	0.5 LB A/A	VEPOST85		a 73	b 57	c 53	c 53		c
COC	1 % V/V	VEPOST							
Regiment	0.4 OZ/A	MPOST							
Dyne-A-Pak	1.5 % V/V	MPOST							
Clincher	13.5 OZ/A	3 DPF							
COC	1 QT/A	3 DPF							
3 Facet	0.5 LB A/A	VEPOST83		a 67	c 57	c 57	c 53		c
COC	1 % V/V	VEPOST							
Regiment	0.4 OZ/A	MPOST							
Dyne-A-Pak	1.5 % V/V	MPOST							
Clincher	13.5 OZ/A	3 DPF							
Grasp	2.0 OZ/A	3 DPF							
COC	1 QT/A	3 DPF							
4 Facet	0.5 LB A/A	VEPOST85		a 67	c 57	c 57	c 53		c
COC	1 % V/V	VEPOST							
Regiment	0.4 OZ/A	MPOST							
Dyne-A-Pak	1.5 % V/V	MPOST							
Clincher	13.5 OZ/A	3 DPF							
Grasp	2.3 OZ/A	3 DPF							
COC	1 QT/A	3 DPF							
5 Facet	0.5 LB A/A	VEPOST75		ab 53	d 30	d 0	d 0		d
COC	1 % V/V	VEPOST							
Regiment	0.4 OZ/A	MPOST							
Dyne-A-Pak	1.5 % V/V	MPOST							
Clincher	13.5 OZ/A	3 DPF							
Grasp	2.6 OZ/A	3 DPF							

	COC	1	QT/A	3 DPF					
6	Facet	0.5	LB A/A	VEPOST0	d 0	f 0	e 0	d 0	d
	COC	1	% V/V	VEPOST					
	Regiment	0.4	OZ/A	MPOST					
	Dyne-A-Pak	1.5	% V/V	MPOST					
	Grasp	2.3	OZ/A	3 DPF					
	COC	1	QT/A	3 DPF					
7	Facet	0.5	LB A/A	VEPOST77	ab 90	a 83	a 87	a 82	a
	COC	1	% V/V	VEPOST					
	Regiment	0.4	OZ/A	MPOST					
	Dyne-A-Pak	1.5	% V/V	MPOST					
	Clincher	15	OZ/A	POTF					
	COC	1	QT/A	POTF					
8	Facet	0.5	LB A/A	VEPOST60	bc 53	d 57	c 85	a 73	b
	COC	1	% V/V	VEPOST					
	Regiment	0.4	OZ/A	MPOST					
	Dyne-A-Pak	1.5	% V/V	MPOST					
	Clincher	15	OZ/A	POTF					
	Grasp	2.0	OZ/A	POTF					
	COC	1	QT/A	POTF					
9	Facet	0.5	LB A/A	VEPOST60	bc 30	e 63	c 80	ab 70	b
	COC	1	% V/V	VEPOST					
	Regiment	0.4	OZ/A	MPOST					
	Dyne-A-Pak	1.5	% V/V	MPOST					
	Clincher	15	OZ/A	POTF					
	Grasp	2.3	OZ/A	POTF					
	COC	1	QT/A	POTF					
10	Facet	0.5	LB A/A	VEPOST57	c 30	e 73	b 75	b 57	c
	COC	1	% V/V	VEPOST					
	Regiment	0.4	OZ/A	MPOST					
	Dyne-A-Pak	1.5	% V/V	MPOST					
	Clincher	15	OZ/A	POTF					
	Grasp	2.6	OZ/A	POTF					
	COC	1	QT/A	POTF					
11	Facet	0.5	LB A/A	VEPOST0	d 0	f 0	e 0	d 0	d
	COC	1	% V/V	VEPOST					
	Regiment	0.4	OZ/A	MPOST					
	Dyne-A-Pak	1.5	% V/V	MPOST					
	Grasp	2.6	OZ/A	POTF					
	COC	1	QT/A	POTF					
12	nontreated				0	d 0	f 0	e 0	d 0
	LSD (P=.10)				12.7	4.8	4.8	5.6	5.3
	Standard Deviation				9.1	3.4	3.4	4.0	3.8
	CV				18.74	8.92	8.67	9.68	10.29
	Grand Mean				48.47	38.61	39.72	41.11	36.81
	Bartlett's X2				11.525	0.0	0.0	0.127	2.626
	P(Bartlett's X2)				0.117	.	.	1.00	0.854
	Replicate F				1.422	3.043	8.660	2.147	8.189
	Replicate Prob(F)				0.2625	0.0681	0.0017	0.1406	0.0022
	Treatment F				49.955	274.957	256.064	271.012	236.665
	Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001

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Pest Type					
Pest Code		LEFPA	LEFPA	LEFPA	LEFPA
Crop Code					
Part Rated		PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date		14/Jun/07	22/Jun/07	29/Jun/07	6/Jul/07
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		%	%	%	%
Trt-Eval Interval		5 DA-C	13 DA-C	8 DA-D	15 DA-D
Trt Treatment	Rate	Growth			
No. Name	Rate Unit	Stage	1	2	3
				4	5

Means followed by same letter do not significantly differ (P=.10, 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 LEFPA  
 Crop Code  
 Part Rated PLATOT P  
 Rating Date 17/Aug/07  
 Rating Data Type CONTROL  
 Rating Unit %  
 Trt-Eval Interval 57 DA-D

Trt	Treatment	Rate	Growth	
No.	Name	RateUnit	Stage	6
1	Facet	0.5 LB A/A	VEPOST0	f
	COC	1 % V/V	VEPOST	
	Regiment	0.4 OZ/A	MPOST	
	Dyne-A-Pak	1.5 % V/V	MPOST	
2	Facet	0.5 LB A/A	VEPOST30	e
	COC	1 % V/V	VEPOST	
	Regiment	0.4 OZ/A	MPOST	
	Dyne-A-Pak	1.5 % V/V	MPOST	
	Clincher	13.5 OZ/A	3 DPF	
	COC	1 QT/A	3 DPF	
3	Facet	0.5 LB A/A	VEPOST0	f
	COC	1 % V/V	VEPOST	
	Regiment	0.4 OZ/A	MPOST	
	Dyne-A-Pak	1.5 % V/V	MPOST	
	Clincher	13.5 OZ/A	3 DPF	
	Grasp	2.0 OZ/A	3 DPF	
	COC	1 QT/A	3 DPF	
4	Facet	0.5 LB A/A	VEPOST0	f
	COC	1 % V/V	VEPOST	
	Regiment	0.4 OZ/A	MPOST	
	Dyne-A-Pak	1.5 % V/V	MPOST	
	Clincher	13.5 OZ/A	3 DPF	
	Grasp	2.3 OZ/A	3 DPF	
	COC	1 QT/A	3 DPF	
5	Facet	0.5 LB A/A	VEPOST0	f
	COC	1 % V/V	VEPOST	
	Regiment	0.4 OZ/A	MPOST	
	Dyne-A-Pak	1.5 % V/V	MPOST	
	Clincher	13.5 OZ/A	3 DPF	
	Grasp	2.6 OZ/A	3 DPF	
	COC	1 QT/A	3 DPF	
6	Facet	0.5 LB A/A	VEPOST0	f
	COC	1 % V/V	VEPOST	
	Regiment	0.4 OZ/A	MPOST	
	Dyne-A-Pak	1.5 % V/V	MPOST	
	Grasp	2.3 OZ/A	3 DPF	
	COC	1 QT/A	3 DPF	

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7	Facet	0.5	LB A/A	VEPOST82	a
	COC	1	% V/V	VEPOST	
	Regiment	0.4	OZ/A	MPOST	
	Dyne-A-Pak	1.5	% V/V	MPOST	
	Clincher	15	OZ/A	POTF	
	COC	1	QT/A	POTF	
8	Facet	0.5	LB A/A	VEPOST73	b
	COC	1	% V/V	VEPOST	
	Regiment	0.4	OZ/A	MPOST	
	Dyne-A-Pak	1.5	% V/V	MPOST	
	Clincher	15	OZ/A	POTF	
	Grasp	2.0	OZ/A	POTF	
	COC	1	QT/A	POTF	
9	Facet	0.5	LB A/A	VEPOST63	c
	COC	1	% V/V	VEPOST	
	Regiment	0.4	OZ/A	MPOST	
	Dyne-A-Pak	1.5	% V/V	MPOST	
	Clincher	15	OZ/A	POTF	
	Grasp	2.3	OZ/A	POTF	
	COC	1	QT/A	POTF	
10	Facet	0.5	LB A/A	VEPOST53	d
	COC	1	% V/V	VEPOST	
	Regiment	0.4	OZ/A	MPOST	
	Dyne-A-Pak	1.5	% V/V	MPOST	
	Clincher	15	OZ/A	POTF	
	Grasp	2.6	OZ/A	POTF	
	COC	1	QT/A	POTF	
11	Facet	0.5	LB A/A	VEPOST0	f
	COC	1	% V/V	VEPOST	
	Regiment	0.4	OZ/A	MPOST	
	Dyne-A-Pak	1.5	% V/V	MPOST	
	Grasp	2.6	OZ/A	POTF	
	COC	1	QT/A	POTF	

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12	nontreated	0	f
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LSD (P=.10)	5.4
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Standard Deviation	3.9
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CV	15.45
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Grand Mean	25.14
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Bartlett's X2	3.394
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P(Bartlett's X2)	0.335
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Replicate F	2.808
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Replicate Prob(F)	0.0820
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Treatment F	220.866
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Treatment Prob(F)	0.0001
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# LSU Northeast Research Station

Pest Type	
Pest Code	LEFPA
Crop Code	
Part Rated	PLATOT P
Rating Date	17/Aug/07
Rating Data Type	CONTROL
Rating Unit	%
Trt-Eval Interval	57 DA-D

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Trt Treatment	Rate	Growth
No. Name	Rate Unit	Stage
		6

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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