

LSU Northeast Research Station

Hemp sesbania control with Grasp

Trial ID: SJ05R017
Location:Study Dir.:
Investigator: Bill Williams**GENERAL TRIAL INFORMATION**

Investigator: Bill Williams

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	ECHCG Barnyardgrass, common	Echinochloa crus-galli
2.	SEBEX Coffeebean	Sesbania exaltata
3.	COMDI Dayflower, spreading	Commelina diffusa
4.	CYPCP Texasweed	Cyperus compressus

Crop 1: ORYSA RICE

Variety: Cocodrie

Planting Date: 5/16/05

Planting Method: DRILLED

Rate: 90 LB/A

Depth: 0.25 IN

Row Spacing: 8 IN

Spacing Within Row: 5 FT

Seed Bed: MEDIUM

Soil Moisture: DRY

Emergence Date: 5/25/05

SITE AND DESIGN

Plot Width, Unit: 6.67 FT

Plot Length, Unit: 15 FT

Reps: 3

Site Type: RICE PADDY

Tillage Type: CONVENTIONAL-TILL

Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 24	% OM: 2.11	Texture: Clay
% Silt: 34	pH: 7.94	Soil Name: Sharkey
% Clay: 42	CEC: 21.9	Fert. Level: EXCELLENT

MOISTURE CONDITIONS

Date	Time	Amount	Unit	Type	Interval	Unit
1.	5/17/05	10:00		Flushed	0	na
2.	5/21/05	10:00		Flushed	0	na
3.	5/25/05	8:00 PM	0.78	in Rainfall	0	na
4.	5/29/05	1:00 AM	0.63	in Rainfall	0	na
5.	5/30/05	11:00 A	1.51	in Rainfall	0	na
6.	5/31/05	8:00 PM	0.26	in Rainfall	0	na
7.	6/2/05	4:00 PM	0.04	in Rainfall	0	na
8.	6/6/05	7:00 PM	0.39	in Rainfall	0	na
9.	6/17/05			300 lb Urea - Permanent flood	0	na
10.	6/18/05	11:00 A	0.42	in Rainfall	0	na
11.	7/3/05	6:00 PM	0.06	in Rainfall	0	na
12.	7/6/05	1:30 PM	1.6	in Rainfall	0	na
13.	7/8/05	1:45 PM	0.93	in Rainfall	0	na
14.	7/10/05	1:00 PM	0.04	in Rainfall	0	na
15.	7/14/05	2:00 PM	0.44	in Rainfall	0	na
16.	7/16/05	10:00 P	0.04	in Rainfall	0	na
17.	7/17/05	1:00 PM	0.25	in Rainfall	0	na
18.	7/18/05	7:00 PM	0.05	in Rainfall	0	na
19.	7/22/05	2:30 PM	0.15	in Rainfall	0	na
20.	8/4/05	3:30 PM	0.27	in Rainfall	0	na
21.	8/5/05	8:00 PM	0.45	in Rainfall	0	na
22.	8/6/05	6:00 PM	0.25	in Rainfall	0	na
23.	8/16/05	6:00 PM	1.31	in Rainfall	0	na
24.	8/22/05	9:00 PM	0.05	in Rainfall	0	na

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Overall Moisture Conditions: NORMAL

Closest Weather Station: Northeast Research Station

Distance: 0.25 Unit: MI

APPLICATION DESCRIPTION

	A	B	C
Application Date:	5/18/05	5/27/05	6/8/05
Time of Day:	3:00	11:00	2:00
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	1-3"	3-6"
Applic. Placement:	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	91 F	85 F	84 F
% Relative Humidity:	63	33	66
Wind Velocity, Unit:	5 S	3 E	6 W
Dew Presence (Y/N):	N	N	N
Soil Temp., Unit:	97 F	94 F	86 F
Soil Moisture:	DRY	MOIST	DRY
% Cloud Cover:	20	0	60

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ORYSA n/a	ORYSA 2 lf	ORYSA 1 T
Stage Scale:	n/a	2 in	7 in

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	ECHCG n/a	ECHCG 2-3 lf	ECHCG 4-5 lf
Stage Scale:	n/a	1-2 in	5 in
Weed 2 Code, Stage:	SEBEX n/a	SEBEX 1 lf	SEBEX 4-5 ;f
Stage Scale:	n/a	1 in	3-4 in
Weed 3 Code, Stage:	COMDI n/a	COMDI 1 lf	COMDI 4-6 lf
Stage Scale:	n/a	1 in	4-6 in
Weed 4 Code, Stage:	CYPCP n/a	CYPCP 1 lf	CYPCP n/a
Stage Scale:	n/a	0.5 in	3-4 in

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	Backpack	Backpack	Backpack
Operating Pressure:	31	31	31
Nozzle Type:	Greenleaf	Greenleaf	Greenleaf
Nozzle Size:	11002	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Nozzles/Row:	4	4	4
Carrier:	Water	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA
Propellant:	CO2	CO2	CO2

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Trial ID: SJ05R017
 Location:

Study Dir.:
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Weed Code	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG		
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P		
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit	%	%	%	%	%		
Rating Date	6/4/05	6/16/05	6/30/05	7/14/05	8/10/05		
Trt-Eval Interval	8 DA-B	8 DA-C	22 DA-C	36 DA-C	63 DA-C		
Trt Treatment	Rate	Grow					
No. Name	Rate Unit	Stg	1	2	3	4	5
1 Command	1.33 PT/A	PRE	95	a 90	b 88	a 85	a 88
2 Command	1.33 PT/A	PRE	95	a 90	b 95	a 95	a 92
Grasp	2.0 OZ/A	PRE					
3 Command	1.33 PT/A	PRE	95	a 95	a 93	a 93	a 93
Grasp	2.3 OZ/A	PRE					
4 Command	1.33 PT/A	PRE	95	a 95	a 93	a 93	a 92
Grasp	2.0 OZ/A	1-3"					
COC	2.5 % V/V	1-3"					
5 Command	1.33 PT/A	PRE	95	a 92	ab 93	a 93	a 92
Grasp	2.3 OZ/A	1-3"					
COC	2.5 % V/V	1-3"					
6 Command	1.33 PT/A	PRE	95	a 93	ab 95	a 90	a 92
Grasp	2.0 OZ/A	3-6"					
COC	2.5 % V/V	3-6"					
7 Command	1.33 PT/A	PRE	95	a 95	a 92	a 93	a 93
Grasp	2.3 OZ/A	3-6"					
COC	2.5 % V/V	3-6"					
8 Command	1.33 PT/A	PRE	95	a 93	ab 92	a 93	a 90
Grasp	2.0 OZ/A	1-3"					
Aim	1.5 OZ/A	1-3"					
COC	2.5 % V/V	1-3"					
9 Command	1.33 PT/A	PRE	95	a 93	ab 95	a 93	a 93
Grasp	2.0 OZ/A	3-6"					
Aim	1.5 OZ/A	3-6"					
COC	2.5 % V/V	3-6"					
10 Command	1.33 PT/A	PRE	95	a 95	a 92	a 92	a 87
Grasp	2.0 OZ/A	1-3"					
Granstand	0.5 PT/A	1-3"					
COC	2.5 % V/V	1-3"					
11 Command	1.33 PT/A	PRE	95	a 95	a 92	a 93	a 90
Grasp	2.0 OZ/A	3-6"					
Granstand	0.5 PT/A	3-6"					
COC	2.5 % V/V	3-6"					

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Weed Code	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	6/4/05	6/16/05	6/30/05	7/14/05	8/10/05
Trt-Eval Interval	8 DA-B	8 DA-C	22 DA-C	36 DA-C	63 DA-C
Trt Treatment	Rate	Grow			
No. Name	Rate Unit	Stg	1	2	3
12 Command	1.33 PT/A	PRE	95	a 93	ab 92
Grasp	2.0 OZ/A	1-3"			
Permit	0.35 OZ/A	1-3"			
COC	2.5 % V/V	1-3"			
13 Command	1.33 PT/A	PRE	95	a 93	ab 93
Grasp	2.0 OZ/A	3-6"			
Permit	0.35 OZ/A	3-6"			
COC	2.5 % V/V	3-6"			
14 Grasp	2.0 OZ/A	1-3"	70	b 83	c 88
Permit	0.35 OZ/A	1-3"			
COC	2.5 % V/V	1-3"			
Clincher	13.5 OZ/A	3-6"			
COC	2.5 % V/V	3-6"			
LSD (P=.05)			0.0	4.5	5.2
Bartlett's X2			0.0	2.558	5.742
P(Bartlett's X2)			.	0.923	0.836
				7.0	7.4
				10.278	8.425
				0.592	0.751

Means followed by same letter do not significantly differ (P=.05, LSD)

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

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Weed Code				SEBEX	SEBEX	SEBEX	SEBEX	SEBEX		
Part Rated				PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P		
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit				%	%	%	%	%		
Rating Date				6/4/05	6/16/05	6/30/05	7/14/05	8/10/05		
Trt-Eval Interval				8 DA-B	8 DA-C	22 DA-C	36 DA-C	63 DA-C		
Trt No.	Treatment Name	Rate	Grow Unit	Stg	6	7	8	9	10	
1	Command	1.33	PT/A	PRE	0	c 0	f 0	d 0	f 0	e
2	Command	1.33	PT/A	PRE	82	b 47	e 0	d 0	f 0	e
	Grasp	2.0	OZ/A	PRE						
3	Command	1.33	PT/A	PRE	83	b 63	d 23	c 0	f 0	e
	Grasp	2.3	OZ/A	PRE						
4	Command	1.33	PT/A	PRE	93	a 88	ab 83	b 75	e 70	d
	Grasp	2.0	OZ/A	1-3"						
	COC	2.5	% V/V	1-3"						
5	Command	1.33	PT/A	PRE	93	a 88	ab 88	ab 78	cde 75	d
	Grasp	2.3	OZ/A	1-3"						
	COC	2.5	% V/V	1-3"						
6	Command	1.33	PT/A	PRE	0	c 77	c 90	ab 85	bc 88	ab
	Grasp	2.0	OZ/A	3-6"						
	COC	2.5	% V/V	3-6"						
7	Command	1.33	PT/A	PRE	0	c 90	ab 87	ab 83	bcd 83	bc
	Grasp	2.3	OZ/A	3-6"						
	COC	2.5	% V/V	3-6"						
8	Command	1.33	PT/A	PRE	90	a 88	ab 85	b 80	cde 75	d
	Grasp	2.0	OZ/A	1-3"						
	Aim	1.5	OZ/A	1-3"						
	COC	2.5	% V/V	1-3"						
9	Command	1.33	PT/A	PRE	0	c 93	a 92	ab 88	ab 90	ab
	Grasp	2.0	OZ/A	3-6"						
	Aim	1.5	OZ/A	3-6"						
	COC	2.5	% V/V	3-6"						
10	Command	1.33	PT/A	PRE	92	a 85	b 85	b 77	de 77	cd
	Grasp	2.0	OZ/A	1-3"						
	Granstand	0.5	PT/A	1-3"						
	COC	2.5	% V/V	1-3"						
11	Command	1.33	PT/A	PRE	0	c 87	ab 88	ab 77	de 77	cd
	Grasp	2.0	OZ/A	3-6"						
	Granstand	0.5	PT/A	3-6"						
	COC	2.5	% V/V	3-6"						
12	Command	1.33	PT/A	PRE	93	a 90	ab 85	b 77	de 77	cd
	Grasp	2.0	OZ/A	1-3"						
	Permit	0.35	OZ/A	1-3"						
	COC	2.5	% V/V	1-3"						

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Weed Code				CYPCP	CYPCP	CYPCP		
Part Rated				PLATOT P	PLATOT P	PLATOT P		
Rating Data Type				CONTROL	CONTROL	CONTROL		
Rating Unit				%	%	%		
Rating Date				6/4/05	6/16/05	6/30/05		
Trt-Eval Interval				8 DA-B	8 DA-C	22 DA-C		
Trt No.	Treatment Name	Rate	Unit	Grow Stg	11	12	13	
1	Command	1.33	PT/A	PRE	0	d 0	b 0	d
2	Command	1.33	PT/A	PRE	95	a 95	a 90	c
	Grasp	2.0	OZ/A	PRE				
3	Command	1.33	PT/A	PRE	95	a 95	a 93	b
	Grasp	2.3	OZ/A	PRE				
4	Command	1.33	PT/A	PRE	82	b 95	a 95	a
	Grasp	2.0	OZ/A	1-3"				
	COC	2.5	% V/V	1-3"				
5	Command	1.33	PT/A	PRE	80	c 95	a 95	a
	Grasp	2.3	OZ/A	1-3"				
	COC	2.5	% V/V	1-3"				
6	Command	1.33	PT/A	PRE	0	d 95	a 95	a
	Grasp	2.0	OZ/A	3-6"				
	COC	2.5	% V/V	3-6"				
7	Command	1.33	PT/A	PRE	0	d 95	a 95	a
	Grasp	2.3	OZ/A	3-6"				
	COC	2.5	% V/V	3-6"				
8	Command	1.33	PT/A	PRE	80	c 95	a 95	a
	Grasp	2.0	OZ/A	1-3"				
	Aim	1.5	OZ/A	1-3"				
	COC	2.5	% V/V	1-3"				
9	Command	1.33	PT/A	PRE	0	d 95	a 95	a
	Grasp	2.0	OZ/A	3-6"				
	Aim	1.5	OZ/A	3-6"				
	COC	2.5	% V/V	3-6"				
10	Command	1.33	PT/A	PRE	80	c 95	a 95	a
	Grasp	2.0	OZ/A	1-3"				
	Granstand	0.5	PT/A	1-3"				
	COC	2.5	% V/V	1-3"				
11	Command	1.33	PT/A	PRE	0	d 95	a 95	a
	Grasp	2.0	OZ/A	3-6"				
	Granstand	0.5	PT/A	3-6"				
	COC	2.5	% V/V	3-6"				
12	Command	1.33	PT/A	PRE	80	c 95	a 95	a
	Grasp	2.0	OZ/A	1-3"				
	Permit	0.35	OZ/A	1-3"				
	COC	2.5	% V/V	1-3"				

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Weed Code				CYPCP	CYPCP	CYPCP
Part Rated				PLATOT P	PLATOT P	PLATOT P
Rating Data Type				CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%
Rating Date				6/4/05	6/16/05	6/30/05
Trt-Eval Interval				8 DA-B	8 DA-C	22 DA-C
Trt	Treatment	Rate	Grow			
No.	Name	Rate Unit	Stg	11	12	13
13	Command	1.33 PT/A	PRE	0	d 95	a 95
	Grasp	2.0 OZ/A	3-6"			
	Permit	0.35 OZ/A	3-6"			
	COC	2.5 % V/V	3-6"			
14	Grasp	2.0 OZ/A	1-3"	80	c 95	a 95
	Permit	0.35 OZ/A	1-3"			
	COC	2.5 % V/V	1-3"			
	Clincher	13.5 OZ/A	3-6"			
	COC	2.5 % V/V	3-6"			
LSD (P=.05)				1.3	0.0	1.3
Bartlett's X2				0.0	0.0	0.0
P(Bartlett's X2)				.	.	.

Means followed by same letter do not significantly differ (P=.05, LSD)

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