

LSU Northeast Research Station

Texasweed control with grasp.

Trial ID: SJ07R030

Study Dir.:

Location:

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

WeedCode	Common Name	Scientific Name
1.	ECHCGCommon barnyardgrass	Echinochloa crus-galli
2.	SEBEXCoffeebean	Sesbania exaltata
3.	CNPPATexasweed	Caperonia palustris
4.	LEFPA Tighthead sprangletop	Leptochloa panicoides

Crop 1: ORYSA RICE

Variety: Cocodrie

Planting Date: 22/May/07

Planting Method: Cocodrie

Depth: 1 IN

Row Spacing: 8 IN

Seed Bed: MEDIUM

Soil Moisture: Dry

SITE AND DESIGN

Plot Width, Unit: 6.67 FT

Plot Length, Unit: 15 FT

Reps: 3

Site Type: FIELD

Tillage Type: CONVENTIONAL-TILL

Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 25.2	% OM: 2.07	Texture: Clay
% Silt: 32.8	pH: 7.87	Soil Name: Sharkey
% Clay: 42	CEC: 21.9	Fert. Level: EXCELLENT

MOISTURE CONDITIONS

Date	Amount	Unit	Type
1. 2/May/07	0.04	IN	
2. 3/May/07	1.24	IN	
3. 15/May/07	0.02	IN	
4. 16/May/07	0.01	IN	
5. 17/May/07	0.01	IN	
6. 23/May/07			FLUSH
7. 30/May/07			FLUSH
8. 3/Jun/07	0.02	IN	
9. 16/Jun/07	0.01	IN	
10. 18/Jun/07	0.02	IN	
11. 19/Jun/07	0.4	IN	
12. 28/Jun/07			FERTILIZE - 300# Prilled Urea
13. 28/Jun/07			FLOOD
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/070.3 IN
 24.14/Jul/071.96 IN
 25.15/Jul/072.8 IN
 26.17/Jul/071.56 IN
 27.20/Jul/070.93 IN
 28.21/Jul/070.1 IN
 29.22/Jul/070.01 IN
 30.30/Jul/072.35 IN

Overall Moisture Conditions: Dry

Closest Weather Station: Northeast Research Station

Distance: 0.5

Unit: MI

APPLICATION DESCRIPTION

	A	B	C
Application Date:	23/May/07	14/Jun/07	25/Jun/07
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	1-3"	3-6"
Applic. Placement:	BROSOI	BROFOL	BROFOL
Air Temp., Unit:	90 F	81 F	95 F
% Relative Humidity:	50	70	55
Wind Velocity, Unit:	6 MPH	6 MPH	5 MPH
Soil Temp., Unit:	82 F	78 F	92 F
% Cloud Cover:		10	

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ORYSA	ORYSA	ORYSA
Stage Scale:	N/A	4-5 LF	5 LF
Height, Unit:		5 "	7 "

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	ECHCG	ECHCG	ECHCG
Stage Scale:	N/A	4-5 LF	3-4 LF
Density, Unit:		1-2 "	1-2 "
Weed 2 Code, Stage:	SEBEX	SEBEX	SEBEX
Stage Scale:	N/A	5-6 LF	6-7 LF
Density, Unit:		1-2 "	4-5 "
Weed 3 Code, Stage:	CNPPA	CNPPA	CNPPA
Stage Scale:	N/A	4-5 LF	4-5 LF
Density, Unit:		2-3 "	4-5 "
Weed 4 Code, Stage:	LEFPA	LEFPA	LEFPA
Stage Scale:	N/A		1-2 T
Density, Unit:			6-7 "

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:	2	2	2
Ground Speed, Unit:	2.8 MPH	2.8 MPH	2.8 MPH
Carrier:	Water	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA
Propellant:	CO2	CO2	CO2

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Weed Code	CNPPA	CNPPA	CNPPA	CNPPA	CNPPA	CNPPA
Crop Code						
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Rating Date	1/Jun/07	14/Jun/07	22/Jun/07	6/Jul/07	9/Jul/07	23/Jul/07
Trt-Eval Interval	9 DA-A	22 DA-A	8 DA-B	11 DA-C	14 DA-C	28 DA-C

Trt No.	Treatment	Rate	Grow Unit	Stg	1	2	3	4	5	6
1	Command	1.33	PT/A	PRE	0	a0	a0	b0	d0	e 0 d
2	Command	1.33	PT/A	PRE	0	a0	a0	b0	d0	e 0 d
	Grasp	2.0	OZ/A	PRE						
3	Command	1.33	PT/A	PRE	0	a0	a0	b0	d0	e 0 d
	Grasp	2.3	OZ/A	PRE						
4	Command	1.33	PT/A	PRE	0	a0	a93	a92	a83	b 63 bc
	Grasp	2.0	OZ/A	1-3"						
	COC	2.5	% V/V	1-3"						
5	Command	1.33	PT/A	PRE	0	a0	a95	a92	a85	ab78 ab
	Grasp	2.3	OZ/A	1-3"						
	COC	2.5	% V/V	1-3"						
6	Command	1.33	PT/A	PRE	0	a0	a0	b57	c 50	d 50 c
	Grasp	2.0	OZ/A	3-6"						
	COC	2.5	% V/V	3-6"						
7	Command	1.33	PT/A	PRE	0	a0	a0	b67	b57	c 53 c
	Grasp	2.3	OZ/A	3-6"						
	COC	2.5	% V/V	3-6"						
8	Command	1.33	PT/A	PRE	0	a0	a93	a92	a92	a 90 ab
	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	a0	a0	b92	a92	a 80 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	0	a0	a90	a92	a90	a 82 ab
	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	a0	a0	b92	a92	a 73 abc
	Grasp	2.0	OZ/A	3-6"						
	Granstand	0.0313	PT/A	3-6"						
	COC	2.5	% V/V	3-6"						
12	Command	1.33	PT/A	PRE	0	a0	a95	a92	a92	a 93 a

	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	0	a0	a0	b92	a92	a 88	ab
	Grasp	2.0	OZ/A 3-6"							
	Permit	5.6	OZ/A 3-6"							
	COC	2.5	% V/V 3-6"							
14	Grasp	2.0	OZ/A 1-3"	0	a0	a80	a92	a92	a 90	ab
	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=.10)				0.0	0.0	10.4	3.1	4.6	16.6	
Standard Deviation				0.0	0.0	7.5	2.2	3.3	11.9	
CV				0.0	0.0	19.2	3.24	5.08	19.84	
Grand Mean				0.0	0.0	39.05	67.74	65.36	60.12	
Bartlett's X2				0.0	0.0	11.392	3.568	6.284	16.852	
P(Bartlett's X2)				.	.	0.01*	0.965	0.615	0.051	
Replicate F				0.000	0.000	0.646	16.467	4.369	8.153	
Replicate Prob(F)				1.0000	1.0000	0.5322	0.0001	0.0231	0.0018	
Treatment F				0.000	0.000	117.584	914.029	388.884	26.048	
Treatment Prob(F)				1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	

LSU Northeast Research Station

Weed Code		CNPPA	CNPPA	CNPPA	CNPPA	CNPPA	CNPPA		
Crop Code									
Part Rated		PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P		
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit		%	%	%	%	%	%		
Rating Date		1/Jun/07	14/Jun/07	22/Jun/07	6/Jul/07	9/Jul/07	23/Jul/07		
Trt-Eval Interval		9 DA-A	22 DA-A	8 DA-B	11 DA-C	14 DA-C	28 DA-C		
Trt Treatment	Rate	Grow							
No. Name	Rate	Unit	Stg	1	2	3	4	5	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.

LSU Northeast Research Station

Weed Code	CNPPA	SEBEX	SEBEX	SEBEX	SEBEX	SEBEX
Crop Code						
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Rating Date	20/Aug/07	1/Jan/07	14/Jun/07	22/Jun/07	6/Jul/07	9/Jul/07
Trt-Eval Interval	56 DA-C	9 DA-A	22 DA-A	8 DA-B	11 DA-C	14 DA-C

Trt No.	Treatment Name	Rate	Grow Unit	Stg	7	8	9	10	11	12
1	Command	1.33	PT/A	PRE	0	c 0	b0	b0	d0	b0 c
2	Command	1.33	PT/A	PRE	0	c 0	b0	b0	d0	b0 c
	Grasp	2.0	OZ/A	PRE						
3	Command	1.33	PT/A	PRE	0	c 73	a50	a30	c0	b0 c
	Grasp	2.3	OZ/A	PRE						
4	Command	1.33	PT/A	PRE	63	ab0	b0	b93	a93	a93 a
	Grasp	2.0	OZ/A	1-3"						
	COC	2.5	% V/V	1-3"						
5	Command	1.33	PT/A	PRE	78	a 0	b0	b88	b93	a90 b
	Grasp	2.3	OZ/A	1-3"						
	COC	2.5	% V/V	1-3"						
6	Command	1.33	PT/A	PRE	50	b 0	b0	b0	d93	a90 b
	Grasp	2.0	OZ/A	3-6"						
	COC	2.5	% V/V	3-6"						
7	Command	1.33	PT/A	PRE	53	b 0	b0	b0	d93	a90 b
	Grasp	2.3	OZ/A	3-6"						
	COC	2.5	% V/V	3-6"						
8	Command	1.33	PT/A	PRE	87	a 0	b0	b95	a93	a90 b
	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	77	a 0	b0	b0	d93	a90 b
	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	a 0	b0	b95	a93	a90 b
	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	70	ab0	b0	b0	d93	a90 b
	Grasp	2.0	OZ/A	3-6"						
	Granstand	0.0313	PT/A	3-6"						
	COC	2.5	% V/V	3-6"						
12	Command	1.33	PT/A	PRE	90	a 0	b0	b95	a93	a90 b
	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	83	a 0	b0	b0	d93	a93 a

	Grasp	2.0	OZ/A 3-6"							
	Permit	5.6	OZ/A 3-6"							
	COC	2.5	% V/V 3-6"							
14	Grasp	2.0	OZ/A 1-3"	87	a 0	b0	b93	a93	a93	a
	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=.10)				15.5	2.1	0.0	3.2	1.7	1.7	
Standard Deviation				11.1	1.5	0.0	2.3	1.2	1.2	
CV				19.07	29.46	0.0	5.42	1.68	1.72	
Grand Mean				58.45	5.24	3.57	42.14	73.33	71.43	
Bartlett's X2				13.275	0.0	0.0	2.617	0.0	0.0	
P(Bartlett's X2)				0.103	.	.	0.27	1.00	.	
Replicate F				7.192	1.000	0.000	1.368	47.667	3.545	
Replicate Prob(F)				0.0033	0.3816	1.0000	0.2722	0.0001	0.0435	
Treatment F				27.685	484.000	0.000	1252.737	3136.000	2978.909	
Treatment Prob(F)				0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	

LSU Northeast Research Station

Weed Code	CNPPA	SEBEX	SEBEX	SEBEX	SEBEX	SEBEX			
Crop Code									
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%	%			
Rating Date	20/Aug/07	1/Jun/07	14/Jun/07	22/Jun/07	6/Jul/07	9/Jul/07			
Trt-Eval Interval	56 DA-C	9 DA-A	22 DA-A	8 DA-B	11 DA-C	14 DA-C			
Trt Treatment	Rate	Grow							
No.Name	Rate	Unit	Stg	7	8	9	10	11	12

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

Weed Code	SEBEX
Crop Code	
Part Rated	PLATOT P
Rating Data Type	CONTROL
Rating Unit	%
Rating Date	23/Jul/07
Trt-Eval Interval	28 DA-C

Trt No.	Treatment Name	Rate	Unit	Grow Stg	13
1	Command	1.33	PT/A	PRE	0 b
2	Command	1.33	PT/A	PRE	0 b
	Grasp	2.0	OZ/A	PRE	
3	Command	1.33	PT/A	PRE	0 b
	Grasp	2.3	OZ/A	PRE	
4	Command	1.33	PT/A	PRE	95 a
	Grasp	2.0	OZ/A	1-3"	
	COC	2.5	% V/V	1-3"	
5	Command	1.33	PT/A	PRE	93 a
	Grasp	2.3	OZ/A	1-3"	
	COC	2.5	% V/V	1-3"	
6	Command	1.33	PT/A	PRE	95 a
	Grasp	2.0	OZ/A	3-6"	
	COC	2.5	% V/V	3-6"	
7	Command	1.33	PT/A	PRE	95 a
	Grasp	2.3	OZ/A	3-6"	
	COC	2.5	% V/V	3-6"	
8	Command	1.33	PT/A	PRE	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	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	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	95 a
	Grasp	2.0	OZ/A	3-6"	
	Granstand	0.0313	PT/A	3-6"	
	COC	2.5	% V/V	3-6"	
12	Command	1.33	PT/A	PRE	95 a
	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

	Grasp	2.0	OZ/A	3-6"		
	Permit	5.6	OZ/A	3-6"		
	COC	2.5	% V/V	3-6"		
14	Grasp	2.0	OZ/A	1-3"	95	a
	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=.10)	1.1
Standard Deviation	0.8
CV	1.04
Grand Mean	74.52
Bartlett's X2	0.0
P(Bartlett's X2)	.
Replicate F	1.000
Replicate Prob(F)	0.3816
Treatment F	8222.155
Treatment Prob(F)	0.0001

LSU Northeast Research Station

Weed Code	SEBEX
Crop Code	
Part Rated	PLATOT P
Rating Data Type	CONTROL
Rating Unit	%
Rating Date	23/Jul/07
Trt-Eval Interval	28 DA-C

Trt	Treatment	Rate	Grow
No.	Name	Rate	Unit Stg
			13

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

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