

LSU Northeast Research Station

Evaluation broadleaf weed and sedge control in drill-seeded rice.

Trial ID: SJ05R015
Location:Study Dir.:
Investigator: Bill Williams**GENERAL TRIAL INFORMATION**

Investigator: Bill Williams

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Conclusions: Aim at 0.012 and 0.016 lb ai/A controlled hemp sesbania 92% early in the season but dropped to 70 and 80% by August, respectively. Tank mixing Aim with Facet improved season long sesbania control compared to either herbicide applied alone. Aim plus Facet combinations resulted in barnyardgrass and sesbania control similar to that observed with Grasp and Grandstand plus Stam, but rice flatsedge control was less. Overall, the best barnyardgrass, sesbania and flatsedge control was observed from Regiment plus Aim.

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.	CNPPA Texasweed	Caperonia palustris
5.	CYPIR Flatsedge, rice	Cyperus iria

Crop 1: ORYSA RICE

Variety: CL161

Planting Date: 5/16/05

Planting Method: DRILLED

Rate: 90 LB/A

Depth: 0.25 IN

Row Spacing: 8 "

Spacing Within Row: 5 "

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

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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

Overall Moisture Conditions: Normal

Closest Weather Station: Northeast Research Station

Distance: 0.25

Unit: MI

APPLICATION DESCRIPTION

	A	B
Application Date:	5/18/05	5/27/05
Time of Day:	3:00	11:00
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	EPOST
Applic. Placement:	BROSOI	BROFOL
Air Temp., Unit:	91 F	85 F
% Relative Humidity:	63	33
Wind Velocity, Unit:	5 S	2.5 E
Soil Temp., Unit:	97 F	94 F
Soil Moisture:	Dry	Moist
% Cloud Cover:	40	0

CROP STAGE AT EACH APPLICATION

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

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WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	ECHCG n/a	ECHCG 3-4 lf
Stage Scale:	n/a	2 in
Weed 2 Code, Stage:	SEBEX n/a	SEBEX 1 lf
Stage Scale:	n/a	1 in
Weed 3 Code, Stage:	COMDI n/a	COMDI 1 lf
Stage Scale:	n/a	1 in
Weed 4 Code, Stage:	CNPPA n/a	CNPPA 1-2 lf
Stage Scale:	n/a	1 in
Weed 5 Code, Stage:	CYPIR n/a	CYPIR 1 lf
Stage Scale:	n/a	0.5 in

APPLICATION EQUIPMENT

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

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Trial ID: SJ05R015
 Location:

Study Dir.:
 Investigator: Bill Williams

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	6/15/05	6/30/05	7/14/05	8/10/05
Trt-Eval Interval	17 DA-A	28 DA-A	43 DA-A	57 DA-A	84 DA-A

Trt No.	Treatment Name	Rate	Unit	Grow Stg	1	2	3	4	5	
1	Command Aim	0.4	LB A/A	PRE	92	a 80	d 60	e 60	d 60	e
	COC	1	% V/V	EPOST						
2	Command Aim	0.4	LB A/A	PRE	92	a 80	d 60	e 60	d 60	e
	COC	1	% V/V	EPOST						
3	Command Facet	0.4	LB A/A	PRE	92	a 90	ab 83	b 82	bc 82	bcd
	COC	1	% V/V	EPOST						
4	Command Facet	0.4	LB A/A	PRE	95	a 87	abc 80	bc 80	c 73	d
	COC	1	% V/V	EPOST						
5	Command Facet	0.4	LB A/A	PRE	92	a 87	abc 80	bc 88	a 88	ab
	Aim	0.012	LB A/A	EPOST						
	COC	1	% V/V	EPOST						
6	Command Facet	0.4	LB A/A	PRE	93	a 83	cd 80	bc 87	ab 87	ab
	Aim	0.016	LB A/A	EPOST						
	COC	1	% V/V	EPOST						
7	Command Facet	0.4	LB A/A	PRE	93	a 83	cd 80	bc 92	a 92	a
	Aim	0.012	LB A/A	EPOST						
	COC	1	% V/V	EPOST						
8	Command Facet	0.4	LB A/A	PRE	95	a 88	abc 83	b 87	ab 88	ab
	Aim	0.016	LB A/A	EPOST						
	COC	1	% V/V	EPOST						
9	Command Grasp	0.4	LB A/A	PRE	93	a 90	ab 92	a 88	a 85	abc
	COC	2.5	% V/V	EPOST						
10	Command Facet	0.4	LB A/A	PRE	93	a 92	a 93	a 87	ab 83	abc
	Grasp	0.031	LB A/A	EPOST						
	COC	2.5	% V/V	EPOST						

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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	6/15/05	6/30/05	7/14/05	8/10/05				
Trt-Eval Interval	17 DA-A	28 DA-A	43 DA-A	57 DA-A	84 DA-A				
Trt Treatment	Rate	Grow							
No. Name	Rate	Unit	Stg	1	2	3	4	5	
11 Command	0.4	LB A/A	PRE	93	a 85	bcd 77	cd 60	d 57	e
Granstand	0.38	LB A/A	EPOST						
Stam M4	1	LB A/A	EPOST						
COC	2.5	% V/V	EPOST						
12 Command	0.4	LB A/A	PRE	93	a 80	d 73	d 80	c 77	cd
Regiment	0.025	LB A/A	EPOST						
Aim	0.012	LB A/A	EPOST						
COC	2.5	% V/V	EPOST						
13 Command	0.4	LB A/A	PRE	93	a 85	bcd 63	e 60	d 57	e
Stam M4	2	LB A/A	EPOST						
Aim	0.012	LB A/A	EPOST						
14 Untreated				0	b 0	e 0	f 0	e 0	f
LSD (P=.05)				3.2	6.1	6.3	6.6	9.9	
Bartlett's X2				1.417	1.914	2.005	4.154	6.827	
P(Bartlett's X2)				1.00	0.964	0.919	0.656	0.742	

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	6/15/05	6/30/05	7/14/05	8/10/05
Trt-Eval Interval				17 DA-A	28 DA-A	43 DA-A	57 DA-A	84 DA-A
Trt No.	Treatment Name	Rate	Grow Unit	6	7	8	9	10
1	Command Aim	0.4	LB A/A PRE	92	ab 77	b 77	c 70	e 70
	COC	1	% V/V EPOST					d
2	Command Aim	0.4	LB A/A PRE	92	ab 78	b 87	a 77	de 80
	COC	1	% V/V EPOST					c
3	Command Facet	0.4	LB A/A PRE	90	b 80	b 88	a 85	bc 85
	COC	1	% V/V EPOST					bc
4	Command Facet	0.4	LB A/A PRE	83	c 90	a 85	ab 77	de 80
	COC	1	% V/V EPOST					c
5	Command Facet	0.4	LB A/A PRE	93	ab 87	a 87	a 92	ab 92
	Aim	0.012	LB A/A EPOST					a
	COC	1	% V/V EPOST					
6	Command Facet	0.4	LB A/A PRE	93	ab 80	b 88	a 92	ab 92
	Aim	0.016	LB A/A EPOST					a
	COC	1	% V/V EPOST					
7	Command Facet	0.4	LB A/A PRE	93	ab 90	a 92	a 92	ab 92
	Aim	0.012	LB A/A EPOST					a
	COC	1	% V/V EPOST					
8	Command Facet	0.4	LB A/A PRE	95	a 90	a 92	a 88	abc 88
	Aim	0.016	LB A/A EPOST					ab
	COC	1	% V/V EPOST					
9	Command Grasp	0.4	LB A/A PRE	92	ab 87	a 90	a 83	cd 82
	COC	2.5	% V/V EPOST					c
10	Command Facet	0.4	LB A/A PRE	93	ab 92	a 92	a 88	abc 88
	Grasp	0.031	LB A/A EPOST					ab
	COC	2.5	% V/V EPOST					

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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	6/15/05	6/30/05	7/14/05	8/10/05
Trt-Eval Interval	17 DA-A	28 DA-A	43 DA-A	57 DA-A	84 DA-A

Trt	Treatment	Rate	Unit	Grow	Stg	6	7	8	9	10				
11	Command	0.4	LB A/A	PRE	93	ab	88	a	87	a	93	a	93	a
	Granstand	0.38	LB A/A	EPOST										
	Stam M4	1	LB A/A	EPOST										
	COC	2.5	% V/V	EPOST										
12	Command	0.4	LB A/A	PRE	92	ab	80	b	85	ab	88	abc	88	ab
	Regiment	0.025	LB A/A	EPOST										
	Aim	0.012	LB A/A	EPOST										
	COC	2.5	% V/V	EPOST										
13	Command	0.4	LB A/A	PRE	93	ab	77	b	78	bc	83	cd	73	d
	Stam M4	2	LB A/A	EPOST										
	Aim	0.012	LB A/A	EPOST										
14	Untreated				0	d	0	c	0	d	0	f	0	e

LSD (P=.05) 4.5 5.7 7.7 8.3 6.6

Bartlett's X2 3.214 3.534 7.86 5.889 7.063

P(Bartlett's X2) 0.994 0.739 0.726 0.881 0.631

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	CYPIR	CYPIR	CYPIR
Part Rated	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%
Rating Date	6/4/05	6/15/05	6/30/05
Trt-Eval Interval	17 DA-A	28 DA-A	43 DA-A

Trt No.	Treatment Name	Rate	Unit	Grow Stg	11	12	13
1	Command Aim	0.4	LB A/A	PRE	60	d 0	d 0
	COC	1	% V/V	EPOST			c
2	Command Aim	0.4	LB A/A	PRE	73	c 0	d 0
	COC	1	% V/V	EPOST			c
3	Command Facet	0.4	LB A/A	PRE	0	e 0	d 0
	COC	0.25	% V/V	EPOST			c
4	Command Facet	0.4	LB A/A	PRE	0	e 0	d 0
	COC	0.38	% V/V	EPOST			c
5	Command Aim	0.4	LB A/A	PRE	60	d 0	d 0
	COC	0.25	% V/V	EPOST			c
6	Command Facet	0.4	LB A/A	PRE	70	c 0	d 0
	COC	0.25	% V/V	EPOST			c
7	Command Aim	0.4	LB A/A	PRE	70	c 0	d 0
	COC	0.38	% V/V	EPOST			c
8	Command Facet	0.4	LB A/A	PRE	70	c 0	d 0
	COC	0.38	% V/V	EPOST			c
9	Command Grasp	0.4	LB A/A	PRE	60	d 92	ab 92
	COC	0.031	% V/V	EPOST			a
10	Command Facet	0.4	LB A/A	PRE	60	d 95	a 92
	COC	0.031	% V/V	EPOST			a

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Weed Code				CYPIR	CYPIR	CYPIR
Part Rated				PLATOT P	PLATOT P	PLATOT P
Rating Data Type				CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%
Rating Date				6/4/05	6/15/05	6/30/05
Trt-Eval Interval				17 DA-A	28 DA-A	43 DA-A
Trt	Treatment	Rate	Grow			
No.	Name	Rate	Unit	Stg		
11	Command	0.4	LB A/A	PRE	83	11
	Granstand	0.38	LB A/A	EPOST	b 87	12
	Stam M4	1	LB A/A	EPOST	b 87	13
	COC	2.5	% V/V	EPOST		b
12	Command	0.4	LB A/A	PRE	92	12
	Regiment	0.025	LB A/A	EPOST	a 92	13
	Aim	0.012	LB A/A	EPOST	ab 90	13
	COC	2.5	% V/V	EPOST		a
13	Command	0.4	LB A/A	PRE	92	12
	Stam M4	2	LB A/A	EPOST	a 53	13
	Aim	0.012	LB A/A	EPOST	c 0	13
14	Untreated				0	12
					e 0	13
					d 0	13
						c
LSD (P=.05)				4.1	6.2	3.0
Bartlett's X2				1.709	5.0	1.344
P(Bartlett's X2)				0.635	0.172	0.511

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.