

LSU Northeast Research Station

Evaluation of Clearpath for broadspectrum weed control in Clearfield rice.

Trial ID: MR05R103
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: Two Newpath applications control barnyardgrass and red rice, but did not control hemp sesbania. Substituting one of the Newpath applications with Clearpath controlled hemp sesbania 90%, regardless of timing.

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	ECHCG Barnyardgrass, common	Echinochloa crus-galli
2.	ORYSA Rice, common	Oryza sativa
3.	SEBEX Coffeebean	Sesbania exaltata

Crop 1: ORYSA RICE
Planting Date: 5/23/05
Rate: 90 LB/A
Row Spacing: 8 IN

Variety: CL 161
Planting Method: DRILLED
Depth: 0.25 IN
Spacing Within Row: 5 IN
Soil Moisture: DRY
Seed Bed: MEDIUM
Emergence Date: 5/31/05

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: 14	% OM: 1.3	Texture: SILT LOAM
% Silt: 70	pH: 5.8	Soil Name: Gigger silt loam
% Clay: 16	CEC: 5.8	Fert. Level: EXCELLENT

MOISTURE CONDITIONS

Date	Time	Amount	Unit	Type	Interval	Unit
1.	5/27/05			Flush		
2.	5/27/05			Flush		
3.	5/27/05			Flush		
4.	6/3/05			Flush		
5.	6/13/05			Flush		
6.	6/20/05			Flush		
7.	6/28/05	300 lb Urea	fb	Permanent flood		

Overall Moisture Conditions: Dry

Closest Weather Station: Macon Ridge Ressearch Station Distance: 0 Unit: MI

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APPLICATION DESCRIPTION

	A	B
Application Date:	6/3/05	6/17/05
Time of Day:	10:00	3:30
Application Method:	SPRAY	SPRAY
Application Timing:	1-2 lf	2WAA
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	82 F	80 F
% Relative Humidity:	70	70
Wind Velocity, Unit:	5 S	3 S
Soil Temp., Unit:	84 F	78 F
Soil Moisture:	WET	WET
% Cloud Cover:	80	80

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ORYSA 1-2 lf	ORYSA 4-5 lf
Stage Scale:	1-2 in	5-6"

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	ECHCG 1-2 lf	ECHCG 4-5 lf
Stage Scale:	1 in	4-6 in
Weed 2 Code, Stage:	ORYSA 2-3 lf	ORYSA 5lf-1T
Stage Scale:	3-4 in	6-8 in
Weed 3 Code, Stage:	SEBEX 1 lf	SEBEX 4-6 in
Stage Scale:	1 in	na

APPLICATION EQUIPMENT

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

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Weed Code	ECHCG	ECHCG	ECHCG	ECHCG	ORYSA
Crop Code					
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	6/14/05	6/25/05	7/5/05	7/27/05	6/14/05
Trt-Eval Interval	11 DA-A	8 DA-B	18 DA-B	40 DA-B	11 DA-A
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Rate	Grow Unit	Stg	1	2	3	4	5
1	Check				0	b 0	b 0	b 0	b 0
2	Newpath	4	OZ/A	1-2 lf	90	a 90	a 87	a 95	a 77
	COC	1	% V/V	1-2 lf					
	Newpath	4	OZ/A	2 WAA					
	COC	1	% V/V	2 WAA					
3	BAS 77201 H	7.75	OZ/A	1-2 lf	90	a 92	a 87	a 95	a 77
	COC	1	% V/V	1-2 lf					
	Newpath	4	OZ/A	2 WAA					
	COC	1	% V/V	2 WAA					
4	Newpath	4	OZ/A	1-2 lf	90	a 92	a 92	a 95	a 77
	COC	1	% V/V	1-2 lf					
	BAS 77201 H	7.75	OZ/A	2 WAA					
	COC	1	% V/V	2 WAA					
LSD (P=.05)					0.0	3.3	6.4	0.0	11.5
Bartlett's X2					0.0	0.0	0.942	0.0	0.0
P(Bartlett's X2)					.	1.00	0.624	.	1.00

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	ORYSA	ORYSA	ORYSA	SEBEX	SEBEX
Crop Code					
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	6/25/05	7/5/05	7/27/05	6/14/05	6/25/05
Trt-Eval Interval	8 DA-B	18 DA-B	40 DA-B	11 DA-A	8 DA-B
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Rate	Unit	Grow Stg	6	7	8	9	10	
1	Check				0	b 0	b 0	b 0	b 0	c
2	Newpath	4	OZ/A	1-2 lf	88	a 87	a 87	a 0	b 0	c
	COC	1	% V/V	1-2 lf						
	Newpath	4	OZ/A	2 WAA						
	COC	1	% V/V	2 WAA						
3	BAS 77201 H	7.75	OZ/A	1-2 lf	88	a 90	a 85	a 90	a 93	a
	COC	1	% V/V	1-2 lf						
	Newpath	4	OZ/A	2 WAA						
	COC	1	% V/V	2 WAA						
4	Newpath	4	OZ/A	1-2 lf	88	a 92	a 83	a 0	b 80	b
	COC	1	% V/V	1-2 lf						
	BAS 77201 H	7.75	OZ/A	2 WAA						
	COC	1	% V/V	2 WAA						
LSD (P=.05)					2.9	6.0	5.5	0.0	5.0	
Bartlett's X2					0.0	0.84	0.824	0.0	0.542	
P(Bartlett's X2)					1.00	0.359	0.662	.	0.462	

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Weed Code	SEBEX	SEBEX	ORYSA	ORYSA	ORYSA
Crop Code					
Part Rated	PLATOT P	PLATOT P	PLATOT C	PLATOT C	PLATOT C
Rating Data Type	CONTROL	CONTROL	INJURY	INJURY	INJURY
Rating Unit	%	%	%	%	%
Rating Date	7/5/05	7/27/05	6/14/05	6/25/05	7/5/05
Trt-Eval Interval	18 DA-B	40 DA-B	11 DA-A	8 DA-B	18 DA-B
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Rate	Unit	Grow Stg	11	12	13	14	15	
1	Check				0	b 0	b 0	a 0	a 0	a
2	Newpath	4	OZ/A	1-2 lf	0	b 0	b 0	a 0	a 0	a
	COC	1	% V/V	1-2 lf						
	Newpath	4	OZ/A	2 WAA						
	COC	1	% V/V	2 WAA						
3	BAS 77201 H	7.75	OZ/A	1-2 lf	85	a 90	a 0	a 0	a 0	a
	COC	1	% V/V	1-2 lf						
	Newpath	4	OZ/A	2 WAA						
	COC	1	% V/V	2 WAA						
4	Newpath	4	OZ/A	1-2 lf	92	a 90	a 0	a 0	a 0	a
	COC	1	% V/V	1-2 lf						
	BAS 77201 H	7.75	OZ/A	2 WAA						
	COC	1	% V/V	2 WAA						
LSD (P=.05)					8.2	0.0	0.0	0.0	0.0	
Bartlett's X2					1.923	0.0	0.0	0.0	0.0	
P(Bartlett's X2)					0.166	

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Weed Code							
Crop Code				ORYSA	ORYSA	ORYSA	
Part Rated				PLATOT C	GRAIN C	GRAIN C	
Rating Data Type				INJURY	lbs/plt	YIELD	
Rating Unit				%	12% Mst	BU	
Rating Date				7/27/05	10/4/05	10/4/05	
Trt-Eval Interval				40 DA-B			
ARM Action Codes						TY1	
# Subsamples, Dec.						0	
Trt No.	Treatment Name	Rate	Grow	16	17	18	
		Rate Unit	Stg				
1	Check			0	a 0	b 0	b
2	Newpath	4	OZ/A 1-2 lf	0	a 0	b 0	b
	COC	1	% V/V 1-2 lf				
	Newpath	4	OZ/A 2 WAA				
	COC	1	% V/V 2 WAA				
3	BAS 77201 H	7.75	OZ/A 1-2 lf	0	a 8	a 134	a
	COC	1	% V/V 1-2 lf				
	Newpath	4	OZ/A 2 WAA				
	COC	1	% V/V 2 WAA				
4	Newpath	4	OZ/A 1-2 lf	0	a 8	a 136	a
	COC	1	% V/V 1-2 lf				
	BAS 77201 H	7.75	OZ/A 2 WAA				
	COC	1	% V/V 2 WAA				
LSD (P=.05)				0.0	0.3	5.2	
Bartlett's X2				0.0	0.003	0.003	
P(Bartlett's X2)				.	0.956	0.956	

Means followed by same letter do not significantly differ (P=.05, LSD)
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Column 18: TY1 = 16.13333*[C17]