

LSU Northeast Research Station

Effect of tankmixing Newpath with Clincher or Grasp on red rice control.

Trial ID: MR06R002
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.	ORYRU	Wild red rice	Oryza rufipogon
2.	ECHCG	Common barnyardgrass	Echinochloa crus-galli
3.	DIGSA	Large crabgrass	Digitaria sanguinalis
4.	LEFPA	Tighthead sprangletop	Leptochloa panicoides
5.	SEBEX	Hemp sesbania	Sesbania exaltata
6.	ECLAL	Eclipta	Eclipta alba
7.	CYPCP	Annual sedge	Cyperus compressus
8.	CYPES	Yellow nutsedge	Cyperus esculentus
9.	ALRPH	Alligatorweed	Alternanthera philoxeroides

Crop 1: ORYSA RICE

Variety: CL 131

Planting Date: 6/1/06

Planting Method: DRILLED

Rate: 90 LB/A

Depth: 0.25 IN

Row Spacing: 8 IN

Spacing Within Row: 5 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: RICE PADDY

Tillage Type: CONVENTIONAL-TILL

Study Design: FACTORIAL

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

LSU Northeast Research Station

MOISTURE CONDITIONS

	Date	Amount	Unit	Type
1.	6/8/06			Flush
2.	6/13/06			Flush
3.	6/17/06	0.05	IN	RAIN
4.	6/18/06	0.01	IN	RAIN
5.	6/19/06	0.03	IN	RAIN
6.	6/21/06	0.01	IN	RAIN
7.	6/23/06	0.22	IN	RAIN
8.	6/24/06	0.01	IN	RAIN
9.	7/2/06	0.01	IN	RAIN
10.	7/3/06			Fertilize
11.	7/3/06	0.34	IN	RAIN
12.	7/4/06	0.38	IN	RAIN
13.	7/5/06			Flood
14.	7/5/06	0.33	IN	RAIN
15.	7/6/06	0.06	IN	RAIN
16.	7/7/06	0.01	IN	RAIN
17.	7/16/06	0.07	IN	RAIN
18.	7/19/06	1.25	IN	RAIN
19.	7/20/06	0.01	IN	RAIN
20.	7/22/06	1.37	IN	RAIN
21.	7/23/06	0.01	IN	RAIN
22.	7/26/06	0.14	IN	RAIN
23.	7/27/06	0.24	IN	RAIN
24.	7/28/06	0.01	IN	RAIN

Overall Moisture Conditions: Dry

Closest Weather Station: Macon Ridge Research Station Distance: 0.25 Unit: MI

APPLICATION DESCRIPTION

	A	B
Application Date:	6/10/06	6/27/06
Application Method:	SPRAY	SPRAY
Application Timing:	1-2 LF	4-5 LF
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	94 F	88 F
% Relative Humidity:	63	60
Wind Velocity, Unit:	2 W	3 S
Soil Temp., Unit:	81 F	82 F

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ORYSA	ORYSA
Stage Scale:	1-2 LF	5-6 LF
Height, Unit:	1 IN	8 IN

LSU Northeast Research Station

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	ORYRU	ORYRU
Stage Scale:	2-3 lf	5 LF - 1T
Density, Unit:	1 IN	10 IN
Weed 2 Code, Stage:	ECHCG	ECHCG
Stage Scale:	NA	3 LF
Density, Unit:		1 IN
Weed 3 Code, Stage:	DIGSA	DIGSA
Stage Scale:	NA	3 LF
Density, Unit:		1 IN
Weed 4 Code, Stage:	LEFPA	LEFPA
Stage Scale:	NA	3LF 3TIL
Density, Unit:		2-8 IN
Weed 5 Code, Stage:	SEBEX	SEBEX
Stage Scale:	NA	
Density, Unit:		6 IN
Weed 6 Code, Stage:	ECLAL	ECLAL
Stage Scale:	NA	
Density, Unit:		2-4 IN
Weed 7 Code, Stage:	CYPCP	CYPCP
Stage Scale:	NA	
Density, Unit:		4-5 IN
Weed 8 Code, Stage:	CYPES	CYPES
Stage Scale:	NA	
Density, Unit:		11 IN
Weed 9 Code, Stage:	ALRPH	ALRPH
Stage Scale:	4-6 IN	15" RUN

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

LSU Northeast Research Station

Weed Code	ECHCG	ECHCG	ECHCG	ECHCG	ORYSA	ORYSA	ORYSA	ORYSA
Crop Code	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Part Rated	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Data Type	%	%	%	%	%	%	%	%
Rating Unit	6/20/06	7/3/06	7/13/06	7/25/06	6/20/06	7/13/06	7/25/06	10/3/06
Rating Date	10 DA-A	23 DA-A	33 DA-A	45 DA-A	10 DA-A	33 DA-A	45 DA-A	115 DA-A
Trt-Eval Interval								
ARM Action Codes								
# Subsamples, Dec.								
Trt No.	1	2	3	4	5	6	7	8
Treatment Name								
Rate								
Unit								
10 Newpath	95.0 a	95.0 a	95.0 a	95.0 a	86.7 a	95.0 a	95.0 a	95.0 a
COC								
Clincher/Grasp w/2nd Appl								
Newpath								
COC								
Clincher								
11 Newpath	95.0 a	95.0 a	95.0 a	95.0 a	86.7 a	95.0 a	95.0 a	95.0 a
COC								
Clincher/Grasp w/2nd Appl								
Newpath								
COC								
Clincher								
12 Newpath	95.0 a	93.3 a	91.7 ab	95.0 a	86.7 a	95.0 a	95.0 a	95.0 a
COC								
Clincher/Grasp w/2nd Appl								
Newpath								
COC								
Clincher								
13 Newpath	95.0 a	93.3 a	90.0 b	95.0 a	86.7 a	95.0 a	95.0 a	95.0 a
COC								
Newpath								
COC								
LSD (P=.05)	0.00	2.94	2.40	2.70	4.93	0.00	0.00	0.00
Standard Deviation	0.00	1.74	1.42	1.60	2.92	0.00	0.00	0.00
CV	0.0	1.86	1.53	1.69	3.32	0.0	0.0	0.0
Bartlett's X2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)	.	1.00	1.00	.	1.00	.	.	.
Replicate F	0.000	15.368	0.316	1.000	19.200	0.000	0.000	0.000
Replicate Prob(F)	1.0000	0.0001	0.7322	0.3827	0.0001	1.0000	1.0000	1.0000
Treatment F	0.000	0.526	6.842	1.000	1.000	0.000	0.000	0.000
Treatment Prob(F)	1.0000	0.8765	0.0001	0.4777	0.4777	1.0000	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

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

LSU Northeast Research Station

Weed Code		LEFPA	LEFPA	LEFPA	ALLPH	ORYSA	ORYSA		
Crop Code		PLATOT P	PLATOT P	PLATOT P	PLATOT P	GRAIN C	GRAIN C		
Part Rated		CONTROL	CONTROL	CONTROL	CONTROL	YIELD	YIELD		
Rating Data Type		%	%	%	%	lb/plt	BU		
Rating Unit		7/3/06	7/13/06	7/25/06	7/3/06	10/3/06	10/3/06		
Rating Date		23 DA-A	33 DA-A	45 DA-A	23 DA-A	115 DA-A	115 DA-A		
Trt-Eval Interval							TY1		
ARM Action Codes							0		
# Subsamples, Dec.									
Trt	Treatment								
No.	Name	Rate	Unit						
10	Newpath	4 oz/a		95.0 a	90.0 a	83.3 ab	83.3 ab	6.6667 b	100 b
	COC	1 pt/a							
	Clincher/Grasp w/2nd Appl								
	Newpath	4 oz/a							
	COC	1 pt/a							
	Clincher	10 oz/a							
11	Newpath	4 oz/a		95.0 a	90.0 a	88.3 a	95.0 a	6.7500 b	101 b
	COC	1 pt/a							
	Clincher/Grasp w/2nd Appl								
	Newpath	4 oz/a							
	COC	1 pt/a							
	Clincher	13.5 oz/a							
12	Newpath	4 oz/a		93.3 a	88.3 a	81.7 ab	78.3 ab	6.5417 b	98 b
	COC	1 pt/a							
	Clincher/Grasp w/2nd Appl								
	Newpath	4 oz/a							
	COC	1 pt/a							
	Clincher	15 oz/a							
13	Newpath	4 oz/a		93.3 a	90.0 a	78.3 ab	66.7 b	6.9167 b	104 b
	COC	1 pt/a							
	Newpath	4 oz/a							
	COC	1 pt/a							
LSD (P=.05)		2.94	4.69	11.23	14.86	0.98436	14.8		
Standard Deviation		1.74	2.78	6.66	8.82	0.58411	8.8		
CV		1.85	3.09	8.29	9.88	7.19	7.19		
Bartlett's X2		0.0	3.987	8.693	3.888	11.644	11.644		
P(Bartlett's X2)		1.00	0.912	0.65	0.566	0.475	0.475		
Replicate F		4.421	22.428	0.390	2.250	0.121	0.121		
Replicate Prob(F)		0.0232	0.0001	0.6813	0.1272	0.8866	0.8866		
Treatment F		0.737	0.441	2.195	2.904	19.149	19.150		
Treatment Prob(F)		0.7037	0.9293	0.0489	0.0126	0.0001	0.0001		

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

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

ARM Action Codes

TY1 = 15.03333*[C13]