

LSU Northeast Research Station

Amazon sprangletop control in Clearfield rice.

Trial ID: SJ05R020
Location:Study Dir.:
Investigator: Bill Williams**GENERAL TRIAL INFORMATION****Investigator:** Bill Williams**Conducted Under GLP (Y/N):** N**Conducted Under GEP (Y/N):** N**Objective:** The objective of this study is to evaluate herbicides that can be tank mixed with Newpath to control annual grasses escaping control from earlier Newpath applications. Herbicides other than Newpath were used at select timings to ensure the presence of certain annual grasses.**CROP AND WEED DESCRIPTION**

Weed Code	Common Name	Scientific Name
1.	ECHCG Barnyardgrass, common	Echinochloa crus-galli
2.	LEFPA Sprangletop, tighthead	Leptochloa panicoides

Crop 1: ORYSA RICE**Variety:** CL121**Planting Date:** 5/5/05**Planting Method:** DRILLED**Rate:** 90 LB/A**Depth:** 0.25 IN**Row Spacing:** 20 IN**Spacing Within Row:** 5 IN**Seed Bed:** MEDIUM**Soil Moisture:** DRY**Emergence Date:** 5/10/05**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:** 20**% OM:** 1.67**Texture:** Clay**% Silt:** 30**pH:** 7.83**Soil Name:** Tunica clay**% Clay:** 50**CEC:** 21.9**Fert. Level:** EXCELLENT

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MOISTURE CONDITIONS

Date	Time	Amount	Unit	Type	Interval	Unit	
1.	5/7/05	1:00 PM	3	in	Flush	0	n/a
2.	5/10/05	6:30 PM	0.25	in	Rainfall	0	n/a
3.	5/13/05	1:00 PM	3	in	Flush	0	n/a
4.	5/15/05	5:30 PM	0.46	in	Rainfall	0	n/a
5.	5/25/05	8:00 PM	0.78	in	Rainfall	0	n/a
6.	5/29/05	1:00 AM	0.63	in	Rainfall	0	n/a
7.	5/30/05	11:00 A	1.51	in	Rainfall	0	n/a
8.	5/31/05	8:00 PM	0.26	in	Rainfall	0	n/a
9.	6/2/05	4:00 PM	0.04	in	Rainfall	0	n/a
10.	6/6/05	7:00 PM	0.39	in	Rainfall	0	n/a
11.	6/9/05	1:00 PM	3	in	300 lb Urea fb Permanent flood	0	n/a
12.	6/18/05	11:00 A	0.42	in	Rainfall	0	n/a
13.	7/3/05	6:00 PM	0.06	in	Rainfall	0	n/a
14.	7/6/05	1:30 PM	1.6	in	Rainfall	0	n/a
15.	7/8/05	1:45 PM	0.93	in	Rainfall	0	n/a
16.	7/10/05	1:00 PM	0.04	in	Rainfall	0	n/a
17.	7/14/05	2:00 PM	0.44	in	Rainfall	0	n/a
18.	7/16/05	10:00 P	0.04	in	Rainfall	0	n/a
19.	7/17/05	1:00 PM	0.25	in	Rainfall	0	n/a
20.	7/18/05	7:00 PM	0.05	in	Rainfall	0	n/a
21.	7/22/05	2:30 PM	0.15	in	Rainfall	0	n/a
22.	8/4/05	3:30 PM	0.27	in	Rainfall	0	n/a
23.	8/5/05	8:00 PM	0.45	in	Rainfall	0	n/a
24.	8/6/05	6:00 PM	0.25	in	Rainfall	0	n/a
25.	8/16/05	6:00 PM	1.31	in	Rainfall	0	n/a
26.	8/22/05	9:00 PM	0.05	in	Rainfall	0	n/a

Overall Moisture Conditions: Dry

Closest Weather Station: Northeast Research Station

Distance: 0.25 Unit: mi

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	5/6/05	5/19/05	6/6/05	6/16/05
Time of Day:	1:30	2:00	2:00	10:30
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	VEPOST	4-5 lf	POTF
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	90 F	89 F	87 F	86 F
% Relative Humidity:	50	65	74	65
Wind Velocity, Unit:	2 S	5 S	5 W	1 S
Soil Temp., Unit:	88 F	90 F	86 F	85 F
Soil Moisture:	wet	dry	damp	flooded
% Cloud Cover:	0	80	90	90

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	ORYSA n/a	ORYSA 1 lf	ORYSA 5lf-1T	ORYSA 2-4 T
Stage Scale:	n/a	1 in	6-8 in	14 in

WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	ECHCG n/a	ECHCG 1 lf	ECHCG 1-2 Till	ECHCG 3-4 till
Stage Scale:	n/a	1 in	4-5 in	14 in
Weed 2 Code, Stage:	LEFPA n/a	LEFPA n/a	LEFPA 4-5 lf	LEFPA 3-4 till
Stage Scale:	n/a	n/a	3-4 in	14 in

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APPLICATION EQUIPMENT

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

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Trial ID: SJ05R020
 Location:

Study Dir.:
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Weed Code	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG
Crop Code					
Part Rated	PLTOT P	PLTOT P	PLTOT P	PLTOT P	PLTOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	5/26/05	6/4/05	6/9/05	6/24/05	6/30/05
Trt-Eval Interval	7 DA-B	16 DA-B	21 DA-B	8 DA-D	14 DA-D
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Rate	Unit	Grow Stg	1	2	3	4	5	
1	Facet	0.5	LB/A	PRE	53	b 47	b 0	c 0	b 0	c
2	Facet	0.5	LB/A	PRE	92	a 87	a 80	b 92	a 92	b
	Newpath	4	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						
3	Facet	0.5	LB/A	PRE	92	a 90	a 80	b 93	a 92	b
	Newpath	4	OZ/A	VEPOST						
	Clincher	13.5	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						
4	Facet	0.5	LB/A	PRE	92	a 87	a 87	a 93	a 92	b
	Newpath	4	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	Clincher	13.5	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						
5	Facet	0.5	LB/A	PRE	90	a 90	a 87	a 93	a 92	b
	Newpath	4	OZ/A	VEPOST						
	Beyond	2	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						
6	Facet	0.5	LB/A	PRE	92	a 90	a 80	b 92	a 92	b
	Newpath	4	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	Beyond	2	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						

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Weed Code	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG
Crop Code					
Part Rated	PLTOT P	PLTOT P	PLTOT P	PLTOT P	PLTOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	5/26/05	6/4/05	6/9/05	6/24/05	6/30/05
Trt-Eval Interval	7 DA-B	16 DA-B	21 DA-B	8 DA-D	14 DA-D
ARM Action Codes					
# Subsamples, Dec.					

Trt	Treatment	Rate	Unit	Grow	1	2	3	4	5	
No.	Name	Rate	Unit	Stg						
7	Facet	0.5	LB/A	PRE	90	a 90	a 82	ab 93	a 92	b
	Newpath	4	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						
	Clincher	15	OZ/A	POTF						
	COC	2.5	% V/V	POTF						
8	Facet	0.5	LB/A	PRE	92	a 88	a 83	ab 93	a 95	a
	Newpath	4	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						
	Beyond	5	OZ/A	POTF						
	COC	1	% V/V	4-5 lf						

LSD (P=.05)	2.8	6.4	5.5	4.9	2.3
Bartlett's X2	2.483	1.015	1.031	0.0	0.0
P(Bartlett's X2)	0.928	0.908	0.794	1.00	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	ECHCG	ECHCG	ECHCG	LEFPA	LEFPA
Crop Code					
Part Rated	PLTOT P	PLTOT P	PLTOT P	PLTOT P	PLTOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	7/7/05	7/14/05	8/10/05	6/4/05	6/9/05
Trt-Eval Interval	21 DA-D	28 DA-D	55 DA-D	16 DA-B	21 DA-B
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Rate	Unit	Grow Stg	6	7	8	9	10	
1	Facet	0.5	LB/A	PRE	0	b 0	b 0	b 0	c 0	b
2	Facet	0.5	LB/A	PRE	93	a 95	a 93	a 80	b 92	a
	Newpath	4	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						
3	Facet	0.5	LB/A	PRE	93	a 93	a 93	a 92	a 90	a
	Newpath	4	OZ/A	VEPOST						
	Clincher	13.5	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						
4	Facet	0.5	LB/A	PRE	93	a 93	a 93	a 80	b 88	a
	Newpath	4	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	Clincher	13.5	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						
5	Facet	0.5	LB/A	PRE	93	a 95	a 93	a 90	a 92	a
	Newpath	4	OZ/A	VEPOST						
	Beyond	2	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						
6	Facet	0.5	LB/A	PRE	93	a 95	a 93	a 80	b 92	a
	Newpath	4	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	Beyond	2	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						

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Weed Code	ECHCG	ECHCG	ECHCG	LEFPA	LEFPA
Crop Code					
Part Rated	PLTOT P	PLTOT P	PLTOT P	PLTOT P	PLTOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	7/7/05	7/14/05	8/10/05	6/4/05	6/9/05
Trt-Eval Interval	21 DA-D	28 DA-D	55 DA-D	16 DA-B	21 DA-B
ARM Action Codes					
# Subsamples, Dec.					

Trt	Treatment	Rate	Unit	Grow	6	7	8	9	10	
No.	Name	Rate	Unit	Stg						
7	Facet	0.5	LB/A	PRE	93	a 95	a 93	a 80	b 92	a
	Newpath	4	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						
	Clincher	15	OZ/A	POTF						
	COC	2.5	% V/V	POTF						
8	Facet	0.5	LB/A	PRE	93	a 93	a 93	a 80	b 88	a
	Newpath	4	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						
	Beyond	5	OZ/A	POTF						
	COC	1	% V/V	4-5 lf						

LSD (P=.05)	1.8	3.1	1.8	1.8	5.6
Bartlett's X2	0.0	0.0	0.0	0.0	4.815
P(Bartlett's X2)	1.00	1.00	1.00	.	0.439

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	LEFPA	LEFPA	LEFPA	LEFPA	LEFPA
Crop Code					
Part Rated	PLTOT P	PLTOT P	PLTOT P	PLTOT P	PLTOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	6/24/05	6/30/05	7/7/05	7/14/05	8/10/05
Trt-Eval Interval	8 DA-D	14 DA-D	21 DA-D	28 DA-D	55 DA-D
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Rate	Unit	Grow Stg	11	12	13	14	15	
1	Facet	0.5	LB/A	PRE	0	c 0	c 0	c 0	c 0	c
2	Facet	0.5	LB/A	PRE	77	b 85	a 85	b 78	b 78	b
	Newpath	4	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						
3	Facet	0.5	LB/A	PRE	85	ab 85	a 88	ab 88	a 88	a
	Newpath	4	OZ/A	VEPOST						
	Clincher	13.5	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						
4	Facet	0.5	LB/A	PRE	92	a 60	b 88	ab 90	a 90	a
	Newpath	4	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	Clincher	13.5	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						
5	Facet	0.5	LB/A	PRE	87	a 85	a 90	ab 85	ab 85	ab
	Newpath	4	OZ/A	VEPOST						
	Beyond	2	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						
6	Facet	0.5	LB/A	PRE	90	a 60	b 92	a 93	a 93	a
	Newpath	4	OZ/A	VEPOST						
	COC	1	% V/V	VEPOST						
	Newpath	4	OZ/A	4-5 lf						
	Beyond	2	OZ/A	4-5 lf						
	COC	1	% V/V	4-5 lf						

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Weed Code	LEFPA	LEFPA	LEFPA	LEFPA	LEFPA
Crop Code					
Part Rated	PLTOT P	PLTOT P	PLTOT P	PLTOT P	PLTOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	6/24/05	6/30/05	7/7/05	7/14/05	8/10/05
Trt-Eval Interval	8 DA-D	14 DA-D	21 DA-D	28 DA-D	55 DA-D
ARM Action Codes					
# Subsamples, Dec.					

Trt	Treatment	Rate	Unit	Grow	11	12	13	14	15
No.	Name	Rate	Unit	Stg					
7	Facet	0.5	LB/A	PRE	93	a 60	b 93	a 92	a 92
	Newpath	4	OZ/A	VEPOST					
	COC	1	% V/V	VEPOST					
	Newpath	4	OZ/A	4-5 lf					
	COC	1	% V/V	4-5 lf					
	Clincher	15	OZ/A	POTF					
	COC	2.5	% V/V	POTF					
8	Facet	0.5	LB/A	PRE	90	a 60	b 90	ab 90	a 90
	Newpath	4	OZ/A	VEPOST					
	COC	1	% V/V	VEPOST					
	Newpath	4	OZ/A	4-5 lf					
	COC	1	% V/V	4-5 lf					
	Beyond	5	OZ/A	POTF					
	COC	1	% V/V	4-5 lf					

LSD (P=.05)	9.7	0.0	6.7	8.9	8.9
Bartlett's X2	3.916	0.0	3.973	4.233	4.233
P(Bartlett's X2)	0.688	.	0.68	0.645	0.645

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
 Crop Code ORYSA ORYSA
 Part Rated GRAIN C GRAIN C
 Rating Data Type Lb/Plt Bu/A
 Rating Unit 16% 12%
 Rating Date 9/7/05 9/7/05
 Trt-Eval Interval
 ARM Action Codes TY1
 # Subsamples, Dec. 0

Trt	Treatment	Rate	Grow					
No.	Name	Rate	Unit	Stg	16	17		
1	Facet	0.5	LB/A	PRE	0	e	0	e
2	Facet	0.5	LB/A	PRE	5	cd	83	cd
	Newpath	4	OZ/A	VEPOST				
	COC	1	% V/V	VEPOST				
	Newpath	4	OZ/A	4-5 lf				
	COC	1	% V/V	4-5 lf				
3	Facet	0.5	LB/A	PRE	5	d	79	d
	Newpath	4	OZ/A	VEPOST				
	Clincher	13.5	OZ/A	VEPOST				
	COC	1	% V/V	VEPOST				
	Newpath	4	OZ/A	4-5 lf				
	COC	1	% V/V	4-5 lf				
4	Facet	0.5	LB/A	PRE	7	ab	101	ab
	Newpath	4	OZ/A	VEPOST				
	COC	1	% V/V	VEPOST				
	Newpath	4	OZ/A	4-5 lf				
	Clincher	13.5	OZ/A	4-5 lf				
	COC	1	% V/V	4-5 lf				
5	Facet	0.5	LB/A	PRE	6	abc	95	abc
	Newpath	4	OZ/A	VEPOST				
	Beyond	2	OZ/A	VEPOST				
	COC	1	% V/V	VEPOST				
	Newpath	4	OZ/A	4-5 lf				
	COC	1	% V/V	4-5 lf				
6	Facet	0.5	LB/A	PRE	6	bcd	88	bcd
	Newpath	4	OZ/A	VEPOST				
	COC	1	% V/V	VEPOST				
	Newpath	4	OZ/A	4-5 lf				
	Beyond	2	OZ/A	4-5 lf				
	COC	1	% V/V	4-5 lf				

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Weed Code								
Crop Code				ORYSA		ORYSA		
Part Rated				GRAIN	C	GRAIN	C	
Rating Data Type				Lb/Plt		Bu/A		
Rating Unit				16%		12%		
Rating Date				9/7/05		9/7/05		
Trt-Eval Interval								
ARM Action Codes						TY1		
# Subsamples, Dec.						0		
Trt	Treatment	Rate	Unit	Grow				
No.	Name	Rate	Unit	Stg	16		17	
7	Facet	0.5	LB/A	PRE	7	a	108	a
	Newpath	4	OZ/A	VEPOST				
	COC	1	% V/V	VEPOST				
	Newpath	4	OZ/A	4-5 lf				
	COC	1	% V/V	4-5 lf				
	Clincher	15	OZ/A	POTF				
	COC	2.5	% V/V	POTF				
8	Facet	0.5	LB/A	PRE	7	a	111	a
	Newpath	4	OZ/A	VEPOST				
	COC	1	% V/V	VEPOST				
	Newpath	4	OZ/A	4-5 lf				
	COC	1	% V/V	4-5 lf				
	Beyond	5	OZ/A	POTF				
	COC	1	% V/V	4-5 lf				
LSD (P=.05)					1.1		16.5	
Bartlett's X2					3.263		3.263	
P(Bartlett's X2)					0.775		0.775	

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.

Column 17: TY1 = 15.4*[16]