

LSU Northeast Research Station

Evaluation of Newpath tank mixed with selected herbicides for improved grass
grass control in Clearfield rice.

Trial ID: MR05R106

Study Dir.:

Location:

Investigator: Bill Williams

GENERAL TRIAL INFORMATION

Investigator: Bill Williams

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Conclusions: Overall, Beyond was as effective at controlling sprangletop as Clincher
or Ricestar.

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	LEFPA Sprangletop, tighthead	Leptochloa panicoides
2.	ORYSA Rice, red	Oryza sativa

Crop 1: ORYSA RICE	Variety: CL161
Planting Date: 5/23/05	Planting Method: DRILLED
Rate: 90 LB/A	Depth: 0.25 IN
Row Spacing: 8 IN	Spacing Within Row: 5 IN
	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: 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. 6/3/05				Flush		
3. 6/13/05				Flush		
4. 6/20/05				Flush		
5. 6/28/05		300 lb Urea	fb	Permanent flood		

Overall Moisture Conditions: Dry

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

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	6/1/05	6/3/05	6/20/05	7/5/05
Time of Day:	10:00	10:00	12:30	1:00
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	Spike	2-3 lf	3-5 lfw	POTF
Applic. Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	73 F	82 F	92 F	91 F
% Relative Humidity:	78	70	45	49
Wind Velocity, Unit:	5 NW	5 S	2 N	3.5 S
Soil Temp., Unit:	71 F	84 F	94 F	98 F
Soil Moisture:	Wet	Wet	Dry	Flooded
% Cloud Cover:	80	80	20	203

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CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	ORYSA 1 lf	ORYSA 2-3 lf	ORYSA 4-5 lf	ORYSA 2-4 T
Stage Scale:	< 1 in	2 in	5-6 in	14-16 in

WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	LEFPA na	LEFPA 1-2 lf	LEFPA 4-5 lf	LEFPA PI
Stage Scale:	na	1-2"	3-4 in	12-18"
Weed 2 Code, Stage:	ORYSA 1-2 lf	ORYSA 3-4 lf	ORYSA 1-2 T	ORYSA PI
Stage Scale:	1-2 in	3-4 in	6-8 in	16-18 in

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:	CO2	CO2	CO2	CO2

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Location:

Investigator: Bill Williams

Weed Code	LEFPA	LEFPA	LEFPA	LEFPA	ORYSA
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	7/14/05	7/22/05	7/26/05	8/10/05	6/25/05
Trt-Eval Interval	9 DA-D	17 DA-D	21 DA-D	36 DA-D	5 DA-C

Trt No.	Treatment Name	Rate	Unit	Grow Stg	1	2	3	4	5	
1	Check				0	g 0	f 0	e 0	g 0	c
2	Facet	0.5	LB/A	Spike	60	f 70	cde 53	d 53	f 80	a
	Herbimax	1	% V/V	Spike						
	NewPath	4	OZ/A	3-5 lfw						
	Herbimax	1	% V/V	3-5 lfw						
3	Facet	0.5	LB/A	Spike	70	e 73	cd 53	d 53	f 70	b
	Herbimax	1	% V/V	Spike						
	NewPath	4	OZ/A	3-5 lfw						
	Clincher	13.5	OZ/A	3-5 lfw						
	Herbimax	1	% V/V	3-5 lfw						
4	Facet	0.5	LB/A	Spike	95	a 88	a 73	c 73	d 70	b
	Herbimax	1	% V/V	Spike						
	NewPath	4	OZ/A	3-5 lfw						
	Clincher	15	OZ/A	3-5 lfw						
	Herbimax	1	% V/V	3-5 lfw						
5	Facet	0.5	LB/A	Spike	60	f 63	e 67	c 67	de 70	b
	Herbimax	1	% V/V	Spike						
	NewPath	4	OZ/A	3-5 lfw						
	Regiment	0.5	OZ/A	3-5 lfw						
	Kinetic	0.25	% V/V	3-5 lfw						
6	Facet	0.5	LB/A	Spike	60	f 63	e 85	b 83	bc 70	b
	Herbimax	1	% V/V	Spike						
	NewPath	4	OZ/A	3-5 lfw						
	Regiment	0.8	OZ/A	3-5 lfw						
	Kinetic	0.25	% V/V	3-5 lfw						
7	Facet	0.5	LB/A	Spike	70	e 72	cde 67	c 67	de 70	b
	Herbimax	1	% V/V	Spike						
	NewPath	4	OZ/A	3-5 lfw						
	Ricestar HT	13	OZ/A	3-5 lfw						
	Herbimax	1	% V/V	3-5 lfw						
8	Facet	0.5	LB/A	Spike	80	d 73	cd 53	d 53	f 80	a
	Herbimax	1	% V/V	Spike						
	NewPath	4	OZ/A	3-5 lfw						
	Ricestar HT	17	OZ/A	3-5 lfw						
	Herbimax	1	% V/V	3-5 lfw						

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Weed Code	LEFPA	LEFPA	LEFPA	LEFPA	ORYSA			
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%			
Rating Date	7/14/05	7/22/05	7/26/05	8/10/05	6/25/05			
Trt-Eval Interval	9 DA-D	17 DA-D	21 DA-D	36 DA-D	5 DA-C			
Trt Treatment	Rate	Grow						
No. Name	Rate Unit	Stg	1	2	3	4	5	
9 NewPath	4 OZ/A	Spike	90	b 87	ab 90	ab 93	a 80	a
Herbimax	1 % V/V	Spike						
Beyond	5 OZ/A	POTF						
Clincher	15 OZ/A	POTF						
Herbimax	1 % V/V	POTF						
10 NewPath	4 OZ/A	Spike	90	b 88	a 95	a 90	ab 80	a
Herbimax	1 % V/V	Spike						
Beyond	5 OZ/A	POTF						
Regiment	0.8 OZ/A	POTF						
Kinetic	0.25 % V/V	POTF						
11 NewPath	4 OZ/A	Spike	90	b 90	a 95	a 93	a 80	a
Herbimax	1 % V/V	Spike						
NewPath	4 OZ/A	2-3 lf						
Stam	4 QT/A	2-3 lf						
Herbimax	1 % V/V	2-3 lf						
12 NewPath	4 OZ/A	Spike	80	d 87	ab 92	ab 87	abc 80	a
Herbimax	1 % V/V	Spike						
Beyond	5 OZ/A	POTF						
Kinetic	0.25 % V/V	POTF						
13 NewPath	4 OZ/A	Spike	80	d 90	a 92	ab 92	a 80	a
Herbimax	1 % V/V	Spike						
Clincher	15 OZ/A	POTF						
Herbimax	1 % V/V	POTF						
14 NewPath	4 OZ/A	Spike	60	f 67	de 53	d 53	f 80	a
Herbimax	1 % V/V	Spike						
Regiment	0.8 OZ/A	POTF						
Kinetic	0.25 % V/V	POTF						
15 Facet	0.5 LB/A	Spike	85	c 78	bc 67	c 65	e 0	c
Herbimax	1 % V/V	Spike						
Clincher	15 OZ/A	3-5 lfw						
Herbimax	1 % V/V	3-5 lfw						
16 Facet	0.5 LB/A	Spike	80	d 87	ab 85	b 82	c 0	c
Herbimax	1 % V/V	Spike						
Ricestar HT	17 OZ/A	3-5 lfw						
Herbimax	1 % V/V	3-5 lfw						
LSD (P=.05)			0.0	8.5	8.7	8.1	0.0	
Bartlett's X2			0.0	7.399	2.028	3.729	0.0	
P(Bartlett's X2)			.	0.766	0.999	0.994	.	

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Weed Code	LEFPA	LEFPA	LEFPA	LEFPA	ORYSA
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	7/14/05	7/22/05	7/26/05	8/10/05	6/25/05
Trt-Eval Interval	9 DA-D	17 DA-D	21 DA-D	36 DA-D	5 DA-C

Trt	Treatment	Rate	Grow	1	2	3	4	5
No.	Name	Rate Unit	Stg					

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	ORYSA		
Part Rated				PLATOT P	PLATOT P	PLATOT P	PLATOT P		
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit				%	%	%	%		
Rating Date				7/5/05	7/14/05	7/22/05	8/10/05		
Trt-Eval Interval				15 DA-C	9 DA-D	17 DA-D	36 DA-D		
Trt No.	Treatment Name	Rate	Unit	Grow Stg	6	7	8	9	
1	Check				0	e 0	e 0	d 0	e
2	Facet	0.5	LB/A	Spike	80	b 80	b 70	c 60	d
	Herbimax	1	% V/V	Spike					
	NewPath	4	OZ/A	3-5 lfw					
	Herbimax	1	% V/V	3-5 lfw					
3	Facet	0.5	LB/A	Spike	80	b 80	b 70	c 60	d
	Herbimax	1	% V/V	Spike					
	NewPath	4	OZ/A	3-5 lfw					
	Clincher	13.5	OZ/A	3-5 lfw					
	Herbimax	1	% V/V	3-5 lfw					
4	Facet	0.5	LB/A	Spike	80	b 80	b 70	c 60	d
	Herbimax	1	% V/V	Spike					
	NewPath	4	OZ/A	3-5 lfw					
	Clincher	15	OZ/A	3-5 lfw					
	Herbimax	1	% V/V	3-5 lfw					
5	Facet	0.5	LB/A	Spike	80	b 80	b 70	c 60	d
	Herbimax	1	% V/V	Spike					
	NewPath	4	OZ/A	3-5 lfw					
	Regiment	0.5	OZ/A	3-5 lfw					
	Kinetic	0.25	% V/V	3-5 lfw					
6	Facet	0.5	LB/A	Spike	80	b 80	b 70	c 60	d
	Herbimax	1	% V/V	Spike					
	NewPath	4	OZ/A	3-5 lfw					
	Regiment	0.8	OZ/A	3-5 lfw					
	Kinetic	0.25	% V/V	3-5 lfw					
7	Facet	0.5	LB/A	Spike	80	b 80	b 70	c 60	d
	Herbimax	1	% V/V	Spike					
	NewPath	4	OZ/A	3-5 lfw					
	Ricestar HT	13	OZ/A	3-5 lfw					
	Herbimax	1	% V/V	3-5 lfw					
8	Facet	0.5	LB/A	Spike	80	b 80	b 70	c 60	d
	Herbimax	1	% V/V	Spike					
	NewPath	4	OZ/A	3-5 lfw					
	Ricestar HT	17	OZ/A	3-5 lfw					
	Herbimax	1	% V/V	3-5 lfw					

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Weed Code	ORYSA	ORYSA	ORYSA	ORYSA
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Rating Date	7/5/05	7/14/05	7/22/05	8/10/05
Trt-Eval Interval	15 DA-C	9 DA-D	17 DA-D	36 DA-D
Trt Treatment	Rate	Grow		
No. Name	Rate Unit	Stg	6	7
9 NewPath	4 OZ/A	Spike	68	c 90
Herbimax	1 % V/V	Spike		a 90
Beyond	5 OZ/A	POTF		a 93
Clincher	15 OZ/A	POTF		
Herbimax	1 % V/V	POTF		
10 NewPath	4 OZ/A	Spike	67	cd 90
Herbimax	1 % V/V	Spike		a 90
Beyond	5 OZ/A	POTF		a 85
Regiment	0.8 OZ/A	POTF		
Kinetic	0.25 % V/V	POTF		
11 NewPath	4 OZ/A	Spike	90	a 90
Herbimax	1 % V/V	Spike		a 80
NewPath	4 OZ/A	2-3 lf		b 82
Stam	4 QT/A	2-3 lf		
Herbimax	1 % V/V	2-3 lf		
12 NewPath	4 OZ/A	Spike	60	d 70
Herbimax	1 % V/V	Spike		c 90
Beyond	5 OZ/A	POTF		a 92
Kinetic	0.25 % V/V	POTF		
13 NewPath	4 OZ/A	Spike	60	d 53
Herbimax	1 % V/V	Spike		d 0
Clincher	15 OZ/A	POTF		d 0
Herbimax	1 % V/V	POTF		
14 NewPath	4 OZ/A	Spike	60	d 53
Herbimax	1 % V/V	Spike		d 0
Regiment	0.8 OZ/A	POTF		
Kinetic	0.25 % V/V	POTF		
15 Facet	0.5 LB/A	Spike	0	e 0
Herbimax	1 % V/V	Spike		e 0
Clincher	15 OZ/A	3-5 lfw		d 0
Herbimax	1 % V/V	3-5 lfw		
16 Facet	0.5 LB/A	Spike	0	e 0
Herbimax	1 % V/V	Spike		e 0
Ricestar HT	17 OZ/A	3-5 lfw		d 0
Herbimax	1 % V/V	3-5 lfw		
LSD (P=.05)			8.1	3.3
Bartlett's X2			0.489	0.0
P(Bartlett's X2)			0.783	1.00

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Weed Code	ORYSA	ORYSA	ORYSA	ORYSA
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Rating Date	7/5/05	7/14/05	7/22/05	8/10/05
Trt-Eval Interval	15 DA-C	9 DA-D	17 DA-D	36 DA-D

Trt	Treatment	Rate	Grow				
No.	Name	Rate Unit	Stg	6	7	8	9

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.
