

LSU Northeast Research Station

Effect of additives on annual weed weed with selected herbicides.

Trial ID: MR06R107
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.	ECHCG	Common barnyardgrass	Echinochloa crus-galli
2.	DIGSA	Large crabgrass	Digitaria sanguinalis
3.	SEBEX	Hemp sesbania	Sesbania exaltata
4.	CYPIR	Rice flatsedge	Cyperus iria

Crop 1: ORYSA RICE Variety: Cocodrie
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

MOISTURE CONDITIONS

	Date	Amount	Unit	Type	Interval	Unit
1.	6/8/06			Flush	0	A
2.	6/13/06			Flush	0	A
3.	6/17/06	0.05	IN	RAIN	0	A
4.	6/18/06	0.01	IN	RAIN	0	A
5.	6/19/06	0.03	IN	RAIN	0	A
6.	6/21/06	0.01	IN	RAIN	0	A
7.	6/23/06	0.22	IN	RAIN	0	A
8.	6/24/06	0.01	IN	RAIN	0	A
9.	7/2/06	0.01	IN	RAIN	0	A
10.	7/3/06			Fertilize	0	A
11.	7/3/06	0.34	IN	RAIN	0	A
12.	7/4/06	0.38	IN	RAIN	0	A
13.	7/5/06			Flood	0	A
14.	7/5/06	0.33	IN	RAIN	0	A
15.	7/6/06	0.06	IN	RAIN	0	A
16.	7/7/06	0.01	IN	RAIN	0	A
17.	7/16/06	0.07	IN	RAIN	0	A
18.	7/19/06	1.25	IN	RAIN	0	A
19.	7/20/06	0.01	IN	RAIN	0	A
20.	7/22/06	1.37	IN	RAIN	0	A
21.	7/23/06	0.01	IN	RAIN	0	A
22.	7/26/06	0.14	IN	RAIN	0	A
23.	7/27/06	0.24	IN	RAIN	0	A
24.	7/28/06	0.01	IN	RAIN		

Overall Moisture Conditions: Dry

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

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APPLICATION DESCRIPTION

	A	B
Application Date:	6/1/06	6/27/06
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	4-5 LF
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	92 F	88 F
% Relative Humidity:	68	34
Wind Velocity, Unit:	2 W	7 N
Soil Temp., Unit:	81 F	86 F
Soil Moisture:	DRY	DRY
% Cloud Cover:	20	0

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ORYSA	ORYSA
Stage Scale:	N/A	6 lf
Height, Unit:		8 in

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	ECHCG	ECHCG
Stage Scale:	NA	4-5 LF
Density, Unit:		6 IN
Weed 2 Code, Stage:	DIGSA	DIGSA
Stage Scale:	NA	4 LF
Density, Unit:		5 IN
Weed 3 Code, Stage:	SEBEX	SEBEX
Stage Scale:	NA	
Density, Unit:		6 IN
Weed 4 Code, Stage:	CYPIR	CYPIR
Stage Scale:	NA	
Density, Unit:		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 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	DIGSA	DIGSA	DIGSA	SEBEX	CYPIR			
Crop Code	PLATOT P	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	CONTROL			
Rating Data Type												
Rating Unit	%	%	%	%	%	%	%	%	%			
Rating Date	6/20/06	7/3/06	7/13/06	7/25/06	7/3/06	7/13/06	7/25/06	7/25/06	7/25/06			
Trt-Eval Interval	19 DA-A	32 DA-A	42 DA-A	54 DA-A	32 DA-A	42 DA-A	54 DA-A	54 DA-A	54 DA-A			
ARM Action Codes												
# Subsamples, Dec.												
Trt No.	Treatment Name	Rate	Rate Unit	1	2	3	4	5	6	7	8	9
14	Command	1.33	pt/a	90.0 a	95.0 a	86.7 a	95.0 a	95.0 a	90.0 b	80.0 a	0.0 b	0.0 b
	Clincher	13.5	oz/a									
	Herbimax	2.0	% v/v									
	28% UAN	2.0	% v/v									
15	Command	1.33	pt/a	90.0 a	95.0 a	91.7 a	95.0 a	90.0 b	90.0 b	83.3 a	0.0 b	0.0 b
	Clincher	13.5	oz/a									
	Herbimax	2.0	% v/v									
	28% UAN	4.0	% v/v									
16	Command	1.33	pt/a	90.0 a	95.0 a	95.0 a	95.0 a	95.0 a	95.0 a	86.7 a	0.0 b	0.0 b
	Clincher	13.5	oz/a									
	Herbimax	2.0	% v/v									
	AMS	2	% w/w									
17	Command	1.33	pt/a	90.0 a	95.0 a	91.7 a	95.0 a	95.0 a	95.0 a	78.3 a	0.0 b	0.0 b
	Clincher	13.5	oz/a									
	Herbimax	2.0	% v/v									
	AMS	4	% w/w									
18	Command	1.33	pt/a	90.0 a	95.0 a	95.0 a	95.0 a	95.0 a	95.0 a	78.3 a	0.0 b	0.0 b
	Clincher	13.5	oz/a									
	Herbimax	2.0	% v/v									
	Sevin	1	oz/a									
LSD (P=.05)				0.00	0.00	4.67	0.00	0.00	0.00	14.31	4.13	16.42
Standard Deviation				0.00	0.00	2.80	0.00	0.00	0.00	8.58	2.48	9.85
CV				0.0	0.0	3.03	0.0	0.0	0.0	9.91	4.11	16.77
Bartlett's X2				0.0	0.0	3.77	0.0	0.0	0.0	25.809	3.426	37.516
P(Bartlett's X2)				.	.	0.976	.	.	.	0.078	0.984	0.001*
Replicate F				0.000	0.000	2.125	0.000	0.000	0.000	9.923	21.080	3.113
Replicate Prob(F)				1.0000	1.0000	0.1350	1.0000	1.0000	1.0000	0.0004	0.0001	0.0573
Treatment F				0.000	0.000	1.781	0.000	0.000	0.000	0.778	942.280	57.161
Treatment Prob(F)				1.0000	1.0000	0.0745	1.0000	1.0000	1.0000	0.7037	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.

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Weed Code				ORYSA	ORYSA
Crop Code				GRAIN C	GRAIN C
Part Rated				YIELD	YIELD
Rating Data Type				lb/plt	BU
Rating Unit				10/3/06	10/3/06
Rating Date				124 DA-A	124 DA-A
Trt-Eval Interval					TY1
ARM Action Codes					0
# Subsamples, Dec.					
Trt No.	Treatment Name	Rate	Rate Unit	10	11
1	Command Regiment Kinetic Check	1.33 0.5 0.125	pt/a oz/a % v/v	10.23 abc	154 abc
2	Command Regiment Kinetic 28% UAN	1.33 0.5 0.125 2.0	pt/a oz/a % v/v % v/v	9.33 bc	140 bc
3	Command Regiment Kinetic 28% UAN	1.33 0.5 0.125 4.0	pt/a oz/a % v/v % v/v	9.23 bc	139 bc
4	Command Regiment Kinetic AMS	1.33 0.5 0.125 2	pt/a oz/a % v/v % w/w	10.20 abc	153 abc
5	Command Regiment Kinetic AMS	1.33 0.5 0.125 4	pt/a oz/a % v/v % w/w	11.73 a	176 a
6	Command Regiment Kinetic Sevin	1.33 0.5 0.125 1	pt/a oz/a % v/v oz/a	8.57 c	129 c
7	Command Grasp Herbimax Check	1.33 2.0 2.0	pt/a oz/a % v/v	11.70 a	176 a
8	Command Grasp Herbimax 28% UAN	1.33 2.0 2.0 2.0	pt/a oz/a % v/v % v/v	11.23 ab	169 ab
9	Command Grasp Herbimax 28% UAN	1.33 2.0 2.0 4.0	pt/a oz/a % v/v % v/v	10.33 abc	155 abc
10	Command Grasp Herbimax AMS	1.33 2.0 2.0 2	pt/a oz/a % v/v % w/w	10.60 abc	159 abc
11	Command Grasp Herbimax AMS	1.33 2.0 2.0 4	pt/a oz/a % v/v % w/w	9.00 c	135 c
12	Command Grasp Herbimax Takeup	1.33 2.0 2.0 1	pt/a oz/a % v/v pt/a	11.67 a	175 a
13	Command Clincher Herbimax Check	1.33 13.5 2.0	pt/a oz/a % v/v	0.00 d	0 d
14	Command Clincher Herbimax 28% UAN	1.33 13.5 2.0 2.0	pt/a oz/a % v/v % v/v	0.00 d	0 d

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Weed Code			ORYSA	ORYSA
Crop Code			GRAIN C	GRAIN C
Part Rated			YIELD	YIELD
Rating Data Type			lb/plt	BU
Rating Unit			10/3/06	10/3/06
Rating Date			124 DA-A	124 DA-A
Trt-Eval Interval				TY1
ARM Action Codes				0
# Subsamples, Dec.				
Trt	Treatment	Rate	Unit	
No.	Name	Rate	Unit	
			10	11
15	Command	1.33 pt/a	0.00 d	0 d
	Clincher	13.5 oz/a		
	Herbimax	2.0 % v/v		
	28% UAN	4.0 % v/v		
16	Command	1.33 pt/a	0.00 d	0 d
	Clincher	13.5 oz/a		
	Herbimax	2.0 % v/v		
	AMS	2 % w/w		
17	Command	1.33 pt/a	0.00 d	0 d
	Clincher	13.5 oz/a		
	Herbimax	2.0 % v/v		
	AMS	4 % w/w		
18	Command	1.33 pt/a	0.00 d	0 d
	Clincher	13.5 oz/a		
	Herbimax	2.0 % v/v		
	Sevin	1 oz/a		
LSD (P=.05)			1.374	20.7
Standard Deviation			0.824	12.4
CV			11.98	11.98
Bartlett's X2			8.524	8.524
P(Bartlett's X2)			0.578	0.578
Replicate F			2.009	2.009
Replicate Prob(F)			0.1502	0.1502
Treatment F			114.268	114.272
Treatment Prob(F)			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*[C10]