LSU Northeast Research Station

Texasweed control with IR5878.

Trial ID: SJ07R033 Protocol ID: SJ07R033
Location: Study Director:
Investigator: Bill Williams

General Trial Information

Investigator: Bill Williams

Crop Description

Crop 1: ORYSA Oryza sativa Common rice
Variety: Cocodrie
BBCH Scale: BRIC **Planting Date:** 9/May/07
Planting Method: DRILLED **Rate, Unit:** 100 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: MEDIUM
Soil Moisture: DRY
Harvest Equipment: Small plot combine
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 12 FT
% Standard Moisture: 12.0

Pest Description

Pest 1 Type: W **Code:** ECHCG Echinochloa crus-galli
Common Name: Common barnyardgrass

Pest 2 Type: W **Code:** SEBEX Sesbania exaltata
Common Name: Coffeebean

Pest 3 Type: W **Code:** COMDI Commelina diffusa
Common Name: Baby dayflower

Pest 4 Type: W **Code:** LEFPA Leptochloa panicoides
Common Name: Tighthead sprangletop

Pest 5 Type: W **Code:** CNPPA Caperonia palustris
Common Name: Texasweed

Pest 6 Type: W **Code:** CYPCP Cyperus compressus
Common Name: Annual sedge

Site and Design

Plot Width, Unit: 6.67 FT **Site Type:** RICE PADDY
Plot Length, Unit: 15 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Soil Description

Description Name: Sharkey Clay
% Sand: 25.2 **% OM:** 2.07 **Texture:** Clay
% Silt: 32.8 **pH:** 7.87 **Soil Name:** Sharkey Clay
% Clay: 42 **CEC:** 21.9 **Fert. Level:** EXCELLENT

Moisture and Weather Conditions

Overall Moisture Conditions: Dry

Closest Weather Station: Northeast Research Station **Distance:** 0.5 **Unit:** MI

	Date	Amount	Unit	Type
1.	2/May/07	0.04	IN	
2.	3/May/07	1.24	IN	
3.	14/May/07			FLUSH
4.	15/May/07	0.02	IN	
5.	16/May/07	0.01	IN	
6.	17/May/07	0.01	IN	
7.	21/May/07			FLUSH
8.	3/Jun/07	0.02	IN	
9.	12/Jun/07			FERTILIZE - 300# prilled urea
10.	12/Jun/07			FLOOD
11.	16/Jun/07	0.01	IN	
12.	18/Jun/07	0.02	IN	
13.	19/Jun/07	0.4	IN	
14.	2/Jul/07	0.3	IN	
15.	3/Jul/07	0.06	IN	
16.	4/Jul/07	1.14	IN	
17.	5/Jul/07	0.31	IN	
18.	6/Jul/07	0.27	IN	
19.	7/Jul/07	1.39	IN	
20.	9/Jul/07	0.36	IN	
21.	10/Jul/07	0.01	IN	
22.	11/Jul/07	0.27	IN	
23.	13/Jul/07	0.3	IN	
24.	14/Jul/07	1.96	IN	
25.	15/Jul/07	2.8	IN	
26.	17/Jul/07	1.56	IN	
27.	20/Jul/07	0.93	IN	
28.	21/Jul/07	0.1	IN	
29.	22/Jul/07	0.01	IN	
30.	30/Jul/07	2.35	IN	

Application Description

	A
Application Date:	6/Jun/07
Application Method:	SPRAY
Application Timing:	POST
Application Placement:	BROFOL
Air Temperature, Unit:	91 F
% Relative Humidity:	47
Wind Velocity, Unit:	8 MPH
Wind Direction:	S
Soil Temperature, Unit:	88 F
% Cloud Cover:	10

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ORYSA BRIC
Stage Scale Used:	4-5 LF
Stage Majority, Percent:	1 TILL
Stage Minimum, Percent:	5"
Stage Maximum, Percent:	6"

Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	ECHCG W
Stage Majority, Percent:	4-5 LF
Stage Minimum, Percent:	1"
Stage Maximum, Percent:	2"
Pest 2 Code, Disc., Scale:	SEBEX W

Stage Majority, Percent:	3-4 LF
Stage Minimum, Percent:	2"
Stage Maximum, Percent:	3"
Pest 3 Code, Disc., Scale:	COMDI W
Stage Majority, Percent:	5-6 LF
Stage Minimum, Percent:	1"
Stage Maximum, Percent:	2"
Pest 4 Code, Disc., Scale:	LEFPA W
Stage Majority, Percent:	1-2 T
Stage Minimum, Percent:	3"
Stage Maximum, Percent:	4"
Pest 5 Code, Disc., Scale:	CNPPA W
Stage Majority, Percent:	4-5 LF
Stage Minimum, Percent:	3"
Stage Maximum, Percent:	4"
Pest 6 Code, Disc., Scale:	CYPCP W
Stage Majority, Percent:	4-5 LF
Stage Minimum, Percent:	2"
Stage Maximum, Percent:	3"

Application Equipment

	A
Appl. Equipment:	Backpack
Operating Pressure, Unit:	31 PSI
Nozzle Type:	Greenleaf
Nozzle Size:	11002
Nozzle Spacing, Unit:	20 IN
Nozzles/Row:	2
Ground Speed, Unit:	2.8 MPH
Carrier:	Water
Spray Volume, Unit:	15 GAL/AC
Propellant:	CO2

LSU Northeast Research Station

Texasweed control with IR5878.

Trial ID: SJ07R033 Protocol ID: SJ07R033
Location: Study Director:
Investigator: Bill Williams

Pest Type														
Pest Code					CNPPA		CNPPA		CNPPA		CNPPA		CYPES	
Crop Code														
Part Rated					PLATOT	P	PLATOT	P	PLATOT	P	PLATOT	P	PLATOT	P
Rating Date					14/Jun/07		22/Jun/07		6/Jul/07		3/Aug/07		14/Jun/07	
Rating Data Type					CONTROL		CONTROL		CONTROL		CONTROL		CONTROL	
Rating Unit					%		%		%		%		%	
Trt-Eval Interval					8 DA-A		16 DA-A		30 DA-A		58 DA-A		8 DA-A	
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1		2		3		4		5	
1	Grasp	2.3	OZ/A	POST	83	a	73	b	67	c	53	b	77	c
	Dyne-A-Pak	1.5	% V/V	POST										
2	Regiment	0.5	OZ/A	POST	83	a	87	a	77	b	67	b	83	b
	Dyne-A-Pak	1.5	% V/V	POST										
3	Grasp	2.3	OZ/A	POST	93	a	93	a	93	a	95	a	80	bc
	Permit	0.66	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
4	Regiment	0.5	OZ/A	POST	93	a	92	a	93	a	95	a	80	bc
	Permit	0.66	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
5	Grasp	2.3	OZ/A	POST	93	a	88	a	93	a	93	a	85	b
	IR5878	2	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
6	Regiment	0.5	OZ/A	POST	93	a	92	a	93	a	93	a	90	a
	IR5878	2	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
7	Grasp	2.3	OZ/A	POST	83	a	92	a	93	a	95	a	90	a
	IR5878	2	OZ/A	POST										
	Permit	0.33	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
8	Regiment	0.5	OZ/A	POST	87	a	90	a	93	a	95	a	95	a
	IR5878	2	OZ/A	POST										
	Permit	0.33	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
9	IR5878	2	OZ/A	POST	90	a	83	a	67	c	53	b	95	a
	Dyne-A-Pak	1.5	% V/V	POST										
10	IR5878	2	OZ/A	POST	90	a	90	a	93	a	95	a	95	a
	Permit	0.33	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
11	Grasp	2.3	OZ/A	POST	93	a	93	a	93	a	80	a	92	a

	Londax	0.5	OZ/A	POST							
	Dyne-A-Pak	1.5	% V/V	POST							
12	Grandstand	11	OZ/A	POST	93	a	88	a	93	a	90	a	0	d
	Dyne-A-Pak	1.5	% V/V	POST							
LSD (P=.10)					5.7		7.2		3.6		11.1		3.6	
Standard Deviation					4.1		5.1		2.6		7.9		2.6	
CV					4.52		5.81		2.94		9.47		3.24	
Grand Mean					89.72		88.47		87.5		83.75		80.14	
Bartlett's X2					4.113		5.601		4.387		14.862		1.009	
P(Bartlett's X2)					0.904		0.899		0.957		0.021*		0.604	
Replicate F					0.169		0.656		15.400		2.783		0.103	
Replicate Prob(F)					0.8454		0.5286		0.0001		0.0837		0.9027	
Treatment F					3.492		3.520		53.143		13.063		301.112	
Treatment Prob(F)					0.0060		0.0058		0.0001		0.0001		0.0001	

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Pest Type							
Pest Code			CNPPA	CNPPA	CNPPA	CNPPA	CYPES
Crop Code							
Part Rated			PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date			14/Jun/07	22/Jun/07	6/Jul/07	3/Aug/07	14/Jun/07
Rating Data Type			CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit			%	%	%	%	%
Trt-Eval Interval			8 DA-A	16 DA-A	30 DA-A	58 DA-A	8 DA-A
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

LSU Northeast Research Station

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	6		7		8		9		10	
	Pest Type													
	Pest Code				CYPES		CYPES		CYPES		SEBEX		SEBEX	
	Crop Code													
	Part Rated				PLATOT P		PLATOT P		PLATOT P		PLATOT P		PLATOT P	
	Rating Date				22/Jun/07		6/Jul/07		3/Aug/07		14/Jun/07		22/Jun/07	
	Rating Data Type				CONTROL		CONTROL		CONTROL		CONTROL		CONTROL	
	Rating Unit				%		%		%		%		%	
	Trt-Eval Interval				16 DA-A		30 DA-A		58 DA-A		8 DA-A		16 DA-A	
1	Grasp	2.3	OZ/A	POST	57	c	50	d	0	d	95	a	87	a
	Dyne-A-Pak	1.5	% V/V	POST										
2	Regiment	0.5	OZ/A	POST	77	b	70	b	53	c	95	a	90	a
	Dyne-A-Pak	1.5	% V/V	POST										
3	Grasp	2.3	OZ/A	POST	87	ab	93	a	95	a	95	a	92	a
	Permit	0.66	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
4	Regiment	0.5	OZ/A	POST	92	a	93	a	95	a	95	a	92	a
	Permit	0.66	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
5	Grasp	2.3	OZ/A	POST	88	ab	93	a	92	a	95	a	90	a
	IR5878	2	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
6	Regiment	0.5	OZ/A	POST	87	ab	93	a	93	a	95	a	92	a
	IR5878	2	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
7	Grasp	2.3	OZ/A	POST	88	ab	93	a	93	a	95	a	93	a
	IR5878	2	OZ/A	POST										
	Permit	0.33	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
8	Regiment	0.5	OZ/A	POST	88	ab	93	a	93	a	95	a	92	a
	IR5878	2	OZ/A	POST										
	Permit	0.33	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
9	IR5878	2	OZ/A	POST	90	a	93	a	92	a	95	a	85	a
	Dyne-A-Pak	1.5	% V/V	POST										
10	IR5878	2	OZ/A	POST	88	ab	93	a	93	a	95	a	93	a
	Permit	0.33	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
11	Grasp	2.3	OZ/A	POST	88	ab	67	c	67	b	95	a	92	a
	Londax	0.5	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
12	Grandstand	11	OZ/A	POST	0	d	0	e	0	d	85	b	40	b
	Dyne-A-Pak	1.5	% V/V	POST										
	LSD (P=.10)				7.0		2.3		3.8		3.5		20.0	
	Standard Deviation				5.0		1.7		2.7		2.5		14.3	
	CV				6.45		2.14		3.8		2.65		16.55	

Grand Mean	77.5	77.78	72.22	94.17	86.39
Bartlett's X2	2.131	2.141	3.073	0.0	41.325
P(Bartlett's X2)	0.989	0.976	0.878	.	0.001*
Replicate F	6.333	25.000	4.529	1.000	0.574
Replicate Prob(F)	0.0067	0.0001	0.0225	0.3840	0.5715
Treatment F	82.394	877.818	522.622	4.000	3.222
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0027	0.0094

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Pest Type								
Pest Code				CYPES	CYPES	CYPES	SEBEX	SEBEX
Crop Code								
Part Rated				PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date				22/Jun/07	6/Jul/07	3/Aug/07	14/Jun/07	22/Jun/07
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Trt-Eval Interval				16 DA-A	30 DA-A	58 DA-A	8 DA-A	16 DA-A
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	6	7	8	9	10

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

LSU Northeast Research Station

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11		12		13		14		15	
Pest Type														
Pest Code					SEBEX		SEBEX							
Crop Code														
Part Rated					PLATOT P		PLATOT P		GRAIN C		GRAIN C		GRAIN C	
Rating Date					6/Jul/07		3/Aug/07		13/Sep/07		13/Sep/07		13/Sep/07	
Rating Data Type					CONTROL		CONTROL		Yield		Moisture		YIELD	
Rating Unit					%		%		lb/plot		%		BU	
Trt-Eval Interval					30 DA-A		58 DA-A		99 DA-A		99 DA-A		99 DA-A	
1	Grasp	2.3	OZ/A	POST	93	a	93	a	11	a	11	a	180	a
	Dyne-A-Pak	1.5	% V/V	POST										
2	Regiment	0.5	OZ/A	POST	93	a	88	a	10	ab	11	a	159	ab
	Dyne-A-Pak	1.5	% V/V	POST										
3	Grasp	2.3	OZ/A	POST	93	a	93	a	11	a	12	a	179	a
	Permit	0.66	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
4	Regiment	0.5	OZ/A	POST	93	a	95	a	10	ab	11	a	157	ab
	Permit	0.66	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
5	Grasp	2.3	OZ/A	POST	93	a	90	a	10	a	11	a	169	a
	IR5878	2	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
6	Regiment	0.5	OZ/A	POST	93	a	95	a	10	ab	11	a	160	ab
	IR5878	2	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
7	Grasp	2.3	OZ/A	POST	93	a	95	a	11	a	11	a	174	a
	IR5878	2	OZ/A	POST										
	Permit	0.33	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
8	Regiment	0.5	OZ/A	POST	90	b	95	a	10	ab	11	a	161	ab
	IR5878	2	OZ/A	POST										
	Permit	0.33	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
9	IR5878	2	OZ/A	POST	93	a	95	a	11	a	11	a	181	a
	Dyne-A-Pak	1.5	% V/V	POST										
10	IR5878	2	OZ/A	POST	93	a	95	a	10	ab	11	a	156	ab
	Permit	0.33	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
11	Grasp	2.3	OZ/A	POST	93	a	78	a	11	a	11	a	173	a
	Londax	0.5	OZ/A	POST										
	Dyne-A-Pak	1.5	% V/V	POST										
12	Grandstand	11	OZ/A	POST	93	a	82	a	8	b	12	a	122	b
	Dyne-A-Pak	1.5	% V/V	POST										
LSD (P=.10)					1.2		11.0		1.6		1.2		26.7	
Standard Deviation					0.8		7.8		1.1		0.9		19.0	
CV					0.9		8.6		11.38		8.03		11.58	

Grand Mean	93.06	91.25	10.05	10.89	164.25
Bartlett's X2	0.0	12.648	4.108	50.302	4.251
P(Bartlett's X2)	1.00	0.027*	0.967	0.001*	0.962
Replicate F	121.000	3.080	0.803	2.078	0.963
Replicate Prob(F)	0.0001	0.0662	0.4606	0.1490	0.3972
Treatment F	4.000	1.603	2.199	1.161	2.176
Treatment Prob(F)	0.0027	0.1666	0.0557	0.3664	0.0581

LSU Northeast Research Station

Pest Type								
Pest Code				SEBEX	SEBEX			
Crop Code								
Part Rated				PLATOT P	PLATOT P	GRAIN C	GRAIN C	GRAIN C
Rating Date				6/Jul/07	3/Aug/07	13/Sep/07	13/Sep/07	13/Sep/07
Rating Data Type				CONTROL	CONTROL	Yield	Moisture	YIELD
Rating Unit				%	%	lb/plot	%	BU
Trt-Eval Interval				30 DA-A	58 DA-A	99 DA-A	99 DA-A	99 DA-A
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12	13	14	15

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Column 15: TY1 = 16.13333*[13]*(100-[14])/88