

LSU Northeast Research Station

Annual weed control in drill-seeded rice with Grasp as influenced by adjuvants.

Trial ID: SJ07R024 Protocol ID: SJ07R024
 Location: Bay 3 - Texasweed 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:** SEBEX Sesbania exaltata
Common Name: Coffeebean
Pest 2 Type: W **Code:** CNPPA Caperonia palustris
Common Name: Texasweed
Pest 3 Type: W **Code:** ECHCG Echinochloa crus-galli
Common Name: Common barnyardgrass
Pest 4 Type: W **Code:** CYPCP Cyperus compressus
Common Name: Annual sedge
Pest 5 Type: W **Code:** CYPES Cyperus esculentus
Common Name: Chufa
Pest 6 Type: W **Code:** COMDI Commelina diffusa
Common Name: Baby dayflower

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: 9/Jun/07
Application Method: SPRAY
Application Timing: 4-5 LF
Application Placement: BROFOL
Air Temperature, Unit: 98 F
% Relative Humidity: 72
Wind Velocity, Unit: 4 MPH
Wind Direction: W
Soil Temperature, Unit: 90 F

Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale: ORYSA BRIC
Stage Scale Used: 5 LF
Stage Majority, Percent: 6"
Stage Maximum, Percent: 7"

Pest Stage At Each Application

A

Pest 1 Code, Disc., Scale: SEBEX W
Stage Majority, Percent: 7-8 LF
Stage Minimum, Percent: 5"
Stage Maximum, Percent: 6"
Pest 2 Code, Disc., Scale: CNPPA W
Stage Majority, Percent: 5-6 LF
Stage Minimum, Percent: 4"

Stage Maximum, Percent: 5"
Pest 3 Code, Disc., Scale: ECHCG W
Stage Majority, Percent: 4-5 LF
Stage Minimum, Percent: 1"
Stage Maximum, Percent: 2"
Pest 4 Code, Disc., Scale: CYPCP W
Stage Majority, Percent: 8-10 L
Stage Minimum, Percent: 8"
Stage Maximum, Percent: 10"
Pest 5 Code, Disc., Scale: CYPES W
Stage Majority, Percent: 5-6 LF
Stage Minimum, Percent: 1"
Stage Maximum, Percent: 2"
Pest 6 Code, Disc., Scale: COMDI W
Stage Majority, Percent: 1-2 R
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

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Annul weed control in drill-seeded rice with Grasp as influenced by adjuvants.

Trial ID: SJ07R024 Protocol ID: SJ07R024

Location: Bay 3 - Texasweed Study Director:

Investigator: Bill Williams

Pest Type				CNPPA	CNPPA	CNPPA	CNPPA
Pest Code							
Crop Code							
Part Rated				PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date				15/Jun/07	22/Jun/07	6/Jul/07	3/Aug/07
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%
Trt-Eval Interval				6 DA-A	13 DA-A	27 DA-A	55 DA-A
Trt Treatment	Rate	Growth					
No. Name	Rate Unit	Stage	1	2	3	4	
1 Grasp	2	OZ/A 4-5 lf	30	d 63	c 47	c 53	c
Agri-dex	1	QT/A 4-5 lf					
2 Grasp	2	OZ/A 4-5 lf	20	d 57	d 47	c 53	c
Agri-dex	1	QT/A 4-5 lf					
32% UAN	1	QT/A 4-5 lf					
3 Grasp	2	OZ/A 4-5 lf	63	bc 80	ab 80	b 73	b
Agri-dex	1	QT/A 4-5 lf					
Invert Sugar	6	OZ/A 4-5 lf					
4 Grasp	2	OZ/A 4-5 lf	73	ab 83	a 88	ab 72	b
Methylated Seed Oil (MSO)	1	QT/A 4-5 lf					
5 Grasp	2	OZ/A 4-5 lf	77	ab 80	ab 87	ab 95	a
Hasten	1	QT/A 4-5 lf					
6 Grasp	2	OZ/A 4-5 lf	60	bc 80	ab 87	ab 93	a
Dyne-A-Pak	0.4	QT/A 4-5 lf					
7 Grasp	2	OZ/A 4-5 lf	50	c 80	ab 88	ab 57	c
Dyne-A-Pak	1	QT/A 4-5 lf					
8 Grasp	2	OZ/A 4-5 lf	73	ab 80	ab 92	a 93	a
Dyne-Amic	1	QT/A 4-5 lf					
9 Grasp	2	OZ/A 4-5 lf	77	ab 80	ab 92	a 92	a
Polyglycol 26-2	0.4	PT/A 4-5 lf					
10 Grasp	2	OZ/A 4-5 lf	83	a 80	ab 92	a 93	a
Polyglycol 26-2	0.4	PT/A 4-5 lf					
32% UAN	1	QT/A 4-5 lf					
11 Grasp	2	OZ/A 4-5 lf	92	a 80	ab 92	a 95	a
Superb HC	0.5	QT/A 4-5 lf					
12 Grasp	2	OZ/A 4-5 lf	92	a 80	ab 92	a 95	a
Superb HC	1	QT/A 4-5 lf					
13 Grasp	2	OZ/A 4-5 lf	77	ab 80	ab 83	ab 93	a
Adsee	0.5	QT/A 4-5 lf					
14 Grasp	2	OZ/A 4-5 lf	90	a 80	ab 92	a 95	a

Adsee	1	QT/A 4-5 lf						
15 Grasp	2	OZ/A 4-5 lf	92	a 73	b 53	c 53	c	
Inergy	1	QT/A 4-5 lf						
16 Regiment	0.5	OZ/A 4-5 lf	50	c 43	e 50	c 53	c	
Dyne-A-Pak	0.4	QT/A 4-5 lf						
LSD (P=.10)			10.7	4.4	6.0	5.7		
Standard Deviation			7.7	3.1	4.4	4.1		
CV			11.22	4.19	5.54	5.23		
Grand Mean			68.65	75.0	78.75	78.75		
Bartlett's X2			14.261	0.0	6.676	4.332		
P(Bartlett's X2)			0.219	.	0.918	0.959		
Replicate F			1.169	1.901	4.270	1.196		
Replicate Prob(F)			0.3245	0.1669	0.0233	0.3163		
Treatment F			24.149	36.958	51.124	61.546		
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001		

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Pest Type				
Pest Code		CNPPA	CNPPA	CNPPA
Crop Code				
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Rating Date		15/Jun/07	22/Jun/07	6/Jul/07
Rating Data Type		CONTROL	CONTROL	CONTROL
Rating Unit		%	%	%
Trt-Eval Interval		6 DA-A	13 DA-A	27 DA-A
Trt Treatment				
No.	Rate	Growth		
Name	Unit	Stage	1	2
			3	4

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

Pest Type	SEBEX						
Pest Code	SEBEX	SEBEX	SEBEX	SEBEX			
Crop Code							
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P			
Rating Date	15/Jun/07	22/Jun/07	6/Jul/07	3/Aug/07			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%			
Trt-Eval Interval	6 DA-A	13 DA-A	27 DA-A	55 DA-A			
Trt Treatment	Rate	Growth					
No. Name	Rate Unit	Stage	5	6	7	8	
1 Grasp	2	OZ/A 4-5 lf	93	a 95	a 93	a 95	a
Agridex	1	QT/A 4-5 lf					
2 Grasp	2	OZ/A 4-5 lf	63	b 95	a 93	a 82	a
Agridex	1	QT/A 4-5 lf					
32% UAN	1	QT/A 4-5 lf					
3 Grasp	2	OZ/A 4-5 lf	93	a 95	a 93	a 95	a
Agridex	1	QT/A 4-5 lf					
Invert Sugar	6	OZ/A 4-5 lf					
4 Grasp	2	OZ/A 4-5 lf	93	a 95	a 93	a 95	a
Methylated Seed Oil (MSO)	1	QT/A 4-5 lf					
5 Grasp	2	OZ/A 4-5 lf	93	a 95	a 93	a 95	a
Hasten	1	QT/A 4-5 lf					
6 Grasp	2	OZ/A 4-5 lf	93	a 95	a 90	b 90	a
Dyne-A-Pak	0.4	QT/A 4-5 lf					
7 Grasp	2	OZ/A 4-5 lf	93	a 95	a 93	a 95	a
Dyne-A-Pak	1	QT/A 4-5 lf					
8 Grasp	2	OZ/A 4-5 lf	93	a 95	a 93	a 95	a
Dyne-Amic	1	QT/A 4-5 lf					
9 Grasp	2	OZ/A 4-5 lf	93	a 95	a 93	a 95	a
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11 Grasp	2	OZ/A 4-5 lf	93	a 95	a 93	a 95	a
Superb HC	0.5	QT/A 4-5 lf					
12 Grasp	2	OZ/A 4-5 lf	93	a 95	a 93	a 95	a
Superb HC	1	QT/A 4-5 lf					
13 Grasp	2	OZ/A 4-5 lf	90	a 95	a 93	a 95	a
Adsee	0.5	QT/A 4-5 lf					
14 Grasp	2	OZ/A 4-5 lf	93	a 95	a 93	a 95	a
Adsee	1	QT/A 4-5 lf					
15 Grasp	2	OZ/A 4-5 lf	93	a 95	a 93	a 95	a
Inergy	1	QT/A 4-5 lf					
16 Regiment	0.5	OZ/A 4-5 lf	92	a 95	a 93	a 63	a
Dyne-A-Pak	0.4	QT/A 4-5 lf					
LSD (P=.10)			3.2	0.0	1.0	19.8	
Standard Deviation			2.3	0.0	0.7	14.3	

CV	2.55	0.0	0.77	15.57
Grand Mean	91.15	95.0	93.13	91.88
Bartlett's X2	2.334	0.0	0.0	6.936
P(Bartlett's X2)	1.00	.	1.00	0.031*
Replicate F	12.871	0.000	225.000	0.832
Replicate Prob(F)	0.0001	1.0000	0.0001	0.4451
Treatment F	31.116	0.000	4.000	1.025
Treatment Prob(F)	0.0001	1.0000	0.0006	0.4584

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Pest Type				
Pest Code		SEBEX	SEBEX	SEBEX
Crop Code				
Part Rated		PLATOT P	PLATOT P	PLATOT P
Rating Date		15/Jun/07	22/Jun/07	6/Jul/07
Rating Data Type		CONTROL	CONTROL	CONTROL
Rating Unit		%	%	%
Trt-Eval Interval		6 DA-A	13 DA-A	27 DA-A
Trt Treatment				
No.	Rate	Growth		
Name	Unit	Stage	5	6
			7	8

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