

LSU Northeast Research Station

Combinations of V10142 and Regiment for weed control in drill-seeded rice.

Trial ID: SJ07R034 Protocol ID: SJ07R034
 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: SEBEX Sesbania exaltata
 Common Name: Coffeebean
 Pest 2 Type: W Code: COMDI Commelina diffusa
 Common Name: Baby dayflower
 Pest 3 Type: W Code: ECHCG Echinochloa crus-galli
 Common Name: Common barnyardgrass
 Pest 4 Type: W Code: CYPES Cyperus esculentus
 Common Name: Chufa

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.	13/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		B
Application Date:	28/May/07	9/Jun/07	
Application Method:	SPRAY	SPRAY	
Application Timing:	EPOST	3 DPF	
Application Placement:	BROFOL	BROFOL	
Air Temperature, Unit:	77 F	98 F	
% Relative Humidity:	71	65	
Wind Velocity, Unit:	3 MPH	4 MPH	
Wind Direction:	E	E	
Soil Temperature, Unit:	78 F	90 F	
% Cloud Cover:	0		

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ORYSA	BRICORYSA BRIC
Stage Scale Used:	3 LF	
Stage Majority, Percent:	4"	
Stage Maximum, Percent:	5"	

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SEBEX	WSEBEX W
Stage Majority, Percent:	2-3 LF	
Stage Minimum, Percent:	2"	
Stage Maximum, Percent:	3"	
Pest 2 Code, Disc., Scale:	COMDI	WCOMDI W
Stage Majority, Percent:	4-5 LF	
Stage Minimum, Percent:	1"	
Stage Maximum, Percent:	1.5"	
Pest 3 Code, Disc., Scale:	ECHCG	WECHCG W
Stage Majority, Percent:	3-4 LF	
Stage Minimum, Percent:	.5"	
Stage Maximum, Percent:	1.5"	

Pest 4 Code, Disc., Scale: CYPES WCYPES W
Stage Majority, Percent: 6-8 LF
Stage Minimum, Percent: 6"
Stage Maximum, Percent: 8"

Application Equipment

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

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Trial ID: SJ07R034 Protocol ID: SJ07R034

Location: Study Director:
Investigator: Bill Williams

Pest Type											
Pest Code	ECHCG ECHCG ECHCG ECHCG 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	5 DA-B 13 DA-B 27 DA-B 55 DA-B 5 DA-B										
Trt Treatment	Rate	Growth									
No. Name	Rate	Unit	Stage	1	2	3	4	5			
1 Ricestar	15	OZ/A	EPOST	50	c 30	b 0	b 0	b 57	a		
V-10142	0.2	LB A/A	3 DPF								
Dyne-A-Pak	1.5	% V/V	3 DPF								
2 Ricestar	15	OZ/A	EPOST	90	b 92	a 93	a 95	a 53	a		
Regiment	0.4	LB A/A	3 DPF								
Dyne-A-Pak	1.5	% V/V	3 DPF								
3 Ricestar	15	OZ/A	EPOST	90	b 93	a 93	a 95	a 57	a		
Regiment	0.4	LB A/A	3 DPF								
V-10142	0.2	LB A/A	3 DPF								
Dyne-A-Pak	1.5	% V/V	3 DPF								
4 Ricestar	15	OZ/A	EPOST	90	b 92	a 93	a 95	a 57	a		
Regiment	0.4	LB A/A	3 DPF								
V-10142	0.15	LB A/A	3 DPF								
Dyne-A-Pak	1.5	% V/V	3 DPF								
5 Ricestar	15	OZ/A	EPOST	93	a 92	a 93	a 95	a 57	a		
Regiment	0.4	LB A/A	3 DPF								
V-10142	0.1	LB A/A	3 DPF								
Dyne-A-Pak	1.5	% V/V	3 DPF								
6 Ricestar	15	OZ/A	EPOST	90	b 93	a 93	a 95	a 57	a		
Regiment	0.4	LB A/A	3 DPF								
V-10142	0.05	LB A/A	3 DPF								
Dyne-A-Pak	1.5	% V/V	3 DPF								
7 Ricestar	15	OZ/A	EPOST	88	b 93	a 93	a 95	a 53	a		
Regiment	0.4	LB A/A	3 DPF								
V-10142	0.025	LB A/A	3 DPF								
Dyne-A-Pak	1.5	% V/V	3 DPF								
8 Ricestar	15	OZ/A	EPOST	90	b 90	a 92	a 95	a 53	a		
Regiment	0.4	LB A/A	3 DPF								
V-10142	0.013	LB A/A	3 DPF								
Dyne-A-Pak	1.5	% V/V	3 DPF								

9 nontreated	0	d0	c0	b0	b0	b
LSD (P=.10)	1.8	4.3	2.5	0.0	7.8	
Standard Deviation	1.3	3.0	1.7	0.0	5.5	
CV	1.68	4.01	2.4	0.0	11.14	
Grand Mean	75.74	75.0	72.41	73.89	49.26	
Bartlett's X2	0.0	4.828	1.971	0.0	0.0	
P(Bartlett's X2)	.	0.566	0.922	.	.	
Replicate F	2.286	11.385	19.692	0.000	0.862	
Replicate Prob(F)	0.1339	0.0008	0.0001	1.0000	0.4412	
Treatment F	1824.572	403.615	1680.308	0.000	34.277	
Treatment Prob(F)	0.0001	0.0001	0.0001	1.0000	0.0001	

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Pest Type					
Pest Code		ECHCG	ECHCG	ECHCG	CYPES
Crop Code					
Part Rated		PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date		14/Jun/07	22/Jun/07	6/Jul/07	3/Aug/07
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		%	%	%	%
Trt-Eval Interval		5 DA-B	13 DA-B	27 DA-B	55 DA-B
Trt Treatment	Rate	Growth			
No. Name	Rate Unit	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.

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Pest Type				CYPES	CYPES	CYPES	SEBEX	SEBEX		
Pest Code										
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				13 DA-B	27 DA-B	55 DA-B	5 DA-B	13 DA-B		
Trt No.	Treatment Name	Rate	Growth Unit	Stage	6	7	8	9	10	
1	Ricestar	15	OZ/A	EPOST	63	b88	a95	a67	c63	b
	V-10142	0.2	LB A/A	3 DPF						
	Dyne-A-Pak	1.5	% V/V	3 DPF						
2	Ricestar	15	OZ/A	EPOST	57	b63	b95	a85	a93	a
	Regiment	0.4	LB A/A	3 DPF						
	Dyne-A-Pak	1.5	% V/V	3 DPF						
3	Ricestar	15	OZ/A	EPOST	87	a93	a95	a82	ab90	a
	Regiment	0.4	LB A/A	3 DPF						
	V-10142	0.2	LB A/A	3 DPF						
	Dyne-A-Pak	1.5	% V/V	3 DPF						
4	Ricestar	15	OZ/A	EPOST	90	a93	a95	a88	a93	a
	Regiment	0.4	LB A/A	3 DPF						
	V-10142	0.15	LB A/A	3 DPF						
	Dyne-A-Pak	1.5	% V/V	3 DPF						
5	Ricestar	15	OZ/A	EPOST	87	a93	a95	a88	a93	a
	Regiment	0.4	LB A/A	3 DPF						
	V-10142	0.1	LB A/A	3 DPF						
	Dyne-A-Pak	1.5	% V/V	3 DPF						
6	Ricestar	15	OZ/A	EPOST	57	b93	a95	a88	a93	a
	Regiment	0.4	LB A/A	3 DPF						
	V-10142	0.05	LB A/A	3 DPF						
	Dyne-A-Pak	1.5	% V/V	3 DPF						
7	Ricestar	15	OZ/A	EPOST	53	b93	a95	a87	a93	a
	Regiment	0.4	LB A/A	3 DPF						
	V-10142	0.025	LB A/A	3 DPF						
	Dyne-A-Pak	1.5	% V/V	3 DPF						
8	Ricestar	15	OZ/A	EPOST	53	b93	a95	a77	b93	a
	Regiment	0.4	LB A/A	3 DPF						
	V-10142	0.013	LB A/A	3 DPF						
	Dyne-A-Pak	1.5	% V/V	3 DPF						
9	nontreated				0	c0	c0	b0	d0	c
LSD (P=.10)					7.6	4.7	0.0	6.4	4.0	
Standard Deviation					5.4	3.3	0.0	4.5	2.8	
CV					8.82	4.13	0.0	6.14	3.54	
Grand Mean					60.74	79.07	84.44	73.52	79.26	
Bartlett's X2					1.971	4.709	0.0	2.019	2.442	
P(Bartlett's X2)					0.922	0.695	.	0.959	0.931	

Replicate F	3.613	5.304	0.000	7.136	5.765
Replicate Prob(F)	0.0507	0.0171	1.0000	0.0061	0.0130
Treatment F	78.903	274.913	0.000	119.500	373.529
Treatment Prob(F)	0.0001	0.0001	1.0000	0.0001	0.0001

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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		13 DA-B	27 DA-B	55 DA-B	5 DA-B 13 DA-B
Trt Treatment	Rate	Growth			
No. Name	Rate Unit	Stage	6	7	8 9 10

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)

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Pest Type				SEBEX	SEBEX	COMDI	COMDI	COMDI	
Pest Code									
Crop Code									
Part Rated				PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	
Rating Date				6/Jul/07	3/Aug/07	14/Jun/07	22/Jun/07	6/Jul/07	
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit				%	%	%	%	%	
Trt-Eval Interval				27 DA-B	55 DA-B	5 DA-B	13 DA-B	27 DA-B	
Trt No.	Treatment Name	Rate	Growth Unit	Stage	11	12	13	14	15
1	Ricestar	15	OZ/A	EPOST63		b53	b90	a93	a93
	V-10142	0.2	LB A/A	3 DPF					a
	Dyne-A-Pak	1.5	% V/V	3 DPF					
2	Ricestar	15	OZ/A	EPOST93		a95	a90	a93	a93
	Regiment	0.4	LB A/A	3 DPF					a
	Dyne-A-Pak	1.5	% V/V	3 DPF					
3	Ricestar	15	OZ/A	EPOST93		a95	a90	a93	a93
	Regiment	0.4	LB A/A	3 DPF					a
	V-10142	0.2	LB A/A	3 DPF					
	Dyne-A-Pak	1.5	% V/V	3 DPF					
4	Ricestar	15	OZ/A	EPOST93		a95	a90	a93	a93
	Regiment	0.4	LB A/A	3 DPF					a
	V-10142	0.15	LB A/A	3 DPF					
	Dyne-A-Pak	1.5	% V/V	3 DPF					
5	Ricestar	15	OZ/A	EPOST93		a95	a87	a93	a93
	Regiment	0.4	LB A/A	3 DPF					a
	V-10142	0.1	LB A/A	3 DPF					
	Dyne-A-Pak	1.5	% V/V	3 DPF					
6	Ricestar	15	OZ/A	EPOST93		a95	a87	a93	a93
	Regiment	0.4	LB A/A	3 DPF					a
	V-10142	0.05	LB A/A	3 DPF					
	Dyne-A-Pak	1.5	% V/V	3 DPF					
7	Ricestar	15	OZ/A	EPOST93		a95	a90	a93	a93
	Regiment	0.4	LB A/A	3 DPF					a
	V-10142	0.025	LB A/A	3 DPF					
	Dyne-A-Pak	1.5	% V/V	3 DPF					
8	Ricestar	15	OZ/A	EPOST93		a95	a90	a93	a93
	Regiment	0.4	LB A/A	3 DPF					a
	V-10142	0.013	LB A/A	3 DPF					
	Dyne-A-Pak	1.5	% V/V	3 DPF					
9	nontreated				0	c0	c0	b0	b0
	LSD (P=.10)				4.2	2.7	4.0	1.4	1.4
	Standard Deviation				2.9	1.9	2.8	1.0	1.0
	CV				3.68	2.41	3.54	1.16	1.16
	Grand Mean				79.63	79.81	79.26	82.96	82.96
	Bartlett's X2				2.027	0.0	0.0	0.0	0.0
	P(Bartlett's X2)				0.958	.	.	1.00	1.00

Replicate F	2.703	1.000	0.471	64.000	64.000
Replicate Prob(F)	0.0974	0.3897	0.6330	0.0001	0.0001
Treatment F	346.811	879.438	337.529	3136.000	3136.000
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001

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Pest Type					
Pest Code		SEBEX	SEBEX	COMDI	COMDI
Crop Code					
Part Rated		PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date		6/Jul/07	3/Aug/07	14/Jun/07	22/Jun/07
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		%	%	%	%
Trt-Eval Interval		27 DA-B	55 DA-B	5 DA-B	13 DA-B
Trt Treatment	Rate	Growth			
No. Name	Rate Unit	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.

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Pest Type
 Pest Code COMDI
 Crop Code
 Part Rated PLATOT P
 Rating Date 3/Aug/07
 Rating Data Type CONTROL
 Rating Unit %
 Trt-Eval Interval 55 DA-B

Trt	Treatment	Rate	Growth	
No.	Name	Rate Unit	Stage	16
1	Ricestar	15 OZ/A	EPOST95	a
	V-10142	0.2 LB A/A	3 DPF	
	Dyne-A-Pak	1.5 % V/V	3 DPF	
2	Ricestar	15 OZ/A	EPOST95	a
	Regiment	0.4 LB A/A	3 DPF	
	Dyne-A-Pak	1.5 % V/V	3 DPF	
3	Ricestar	15 OZ/A	EPOST95	a
	Regiment	0.4 LB A/A	3 DPF	
	V-10142	0.2 LB A/A	3 DPF	
	Dyne-A-Pak	1.5 % V/V	3 DPF	
4	Ricestar	15 OZ/A	EPOST95	a
	Regiment	0.4 LB A/A	3 DPF	
	V-10142	0.15 LB A/A	3 DPF	
	Dyne-A-Pak	1.5 % V/V	3 DPF	
5	Ricestar	15 OZ/A	EPOST95	a
	Regiment	0.4 LB A/A	3 DPF	
	V-10142	0.1 LB A/A	3 DPF	
	Dyne-A-Pak	1.5 % V/V	3 DPF	
6	Ricestar	15 OZ/A	EPOST95	a
	Regiment	0.4 LB A/A	3 DPF	
	V-10142	0.05 LB A/A	3 DPF	
	Dyne-A-Pak	1.5 % V/V	3 DPF	
7	Ricestar	15 OZ/A	EPOST95	a
	Regiment	0.4 LB A/A	3 DPF	
	V-10142	0.025 LB A/A	3 DPF	
	Dyne-A-Pak	1.5 % V/V	3 DPF	
8	Ricestar	15 OZ/A	EPOST95	a
	Regiment	0.4 LB A/A	3 DPF	
	V-10142	0.013 LB A/A	3 DPF	
	Dyne-A-Pak	1.5 % V/V	3 DPF	
9	nontreated		0	b
LSD (P=.10)			0.0	
Standard Deviation			0.0	
CV			0.0	
Grand Mean			84.44	
Bartlett's X2			0.0	
P(Bartlett's X2)			.	

Replicate F	0.000
Replicate Prob(F)	1.0000
Treatment F	0.000
Treatment Prob(F)	1.0000

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Pest Type	
Pest Code	COMDI
Crop Code	
Part Rated	PLATOT P
Rating Date	3/Aug/07
Rating Data Type	CONTROL
Rating Unit	%
Trt-Eval Interval	55 DA-B

Trt Treatment	Rate	Growth
No. Name	Rate Unit	Stage 16

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.
