

LSU Northeast Research Station

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

Trial ID: SJ06R017	Protocol ID: SJ06R017
Location:	Study Director:
	Investigator: Bill Williams

General Trial Information

Investigator: Bill Williams

Crop Description

Crop 1: ORYSA Oryza sativa	Common rice
Variety: Tranasse	
BBCH Scale: BRIC	Planting Date: 5/25/06
Planting Method: DRILLED	Rate, Unit: 100 LB/A
Depth, Unit: 1 IN	
Row Spacing, Unit: 8 IN	
Seed Bed: MEDIUM	
Soil Moisture: DRY	Emergence Date: 5/31/06
	Harvest Equipment: Small plot combine
Harvested Width, Unit: 5 FT	Harvested Length, Unit: 12 FT
% Standard Moisture: 12.0	

Crop 2: ORYSA Oryza sativa	Common rice
Variety: Tranasse	
BBCH Scale: BRIC	Planting Date: 5/25/06
Planting Method: DRILLED	Rate, Unit: 100 LB/A
Depth, Unit: 1 IN	
Row Spacing, Unit: 8 IN	
Seed Bed: MEDIUM	
Soil Moisture: DRY	Emergence Date: 5/31/06
	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: LEFPA	Leptochloa panicoides
	Common Name:	Amazon sprangletop
Pest 3 Type: W	Code: SEBEX	Sesbania exaltata
	Common Name:	Coffeebean
Pest 4 Type: W	Code: CNPPA	Caperonia palustris
	Common Name:	Texasweed
Pest 5 Type: W	Code: CYPPIR	Cyperus iria
	Common Name:	Rice flatsedge
Pest 6 Type: W	Code: ECHCG	Echinochloa crus-galli
	Common Name:	Common barnyardgrass
Pest 7 Type: W	Code: LEFPA	Leptochloa panicoides
	Common Name:	Amazon sprangletop
Pest 8 Type: W	Code: SEBEX	Sesbania exaltata
	Common Name:	Coffeebean
Pest 9 Type: W	Code: CNPPA	Caperonia palustris
	Common Name:	Texasweed
Pest10 Type: W	Code: CYPPIR	Cyperus iria
	Common Name:	Rice flatsedge

Site and Design

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

Maintenance

No.	Date	Maintenance Treatment Name	Rate	Rate Unit
1.	6/27/06	Prilled Urea	300	lb/A

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Soil Description

Description Name: Bay 1 - South End

% Sand: 20 % OM: 1.8 Texture: Clay
 % Silt: 30 pH: 7.88 Soil Name: Sharkey
 % Clay: 50 CEC: 22.4 Fert. Level: Excellent

Moisture Conditions

Overall Moisture Conditions: Dry

Closest Weather Station: Northeast Research Station Distance: 0.25 Unit: MI

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	5/26/06				Flush		
2.	5/28/06	5:00 pm	0.18	In	Rain	1	Hou
3.	5/29/06	2:30 pm	0.46	In	Rain	2.5	Hou
4.	5/30/06	1:30 pm	0.79	In	Rain	3	Hou
5.	6/2/06	6:30 pm	0.03	In	Rain	1	Hou
6.	6/5/06				Flush		
7.	6/12/06				Flush		
8.	6/17/06	7:00 pm	0.03	In	Rain	1	Hou
9.	6/18/06	10:00 p	0.01	In	Rain	1	Hou
10.	6/19/06	10:00 p	0.05	In	Rain	1	Hou
11.	6/20/06	2:30 pm	0.19	In	Rain	1	Hou
12.	6/24/06	9:00 pm	0.07	In	Rain	1	Hou
13.	6/27/06				Permanent Flood		
14.	7/3/06	1:00 pm	0.07	In	Rain	0.5	Hou
15.	7/4/06	3:00 pm	0.69	In	Rain	1.5	Hou
16.	7/4/06	7:00 am				1	Hou
17.	7/5/06	12:00 a	1.25	In	Rain	0.75	Hou
18.	7/5/06	6:00pm				1.5	Hou
19.	7/6/06	6:00 pm	0.35	In	Rain	3.5	Hou
20.	7/11/06	2:00 pm	0.45	In	Rain	2	Hou

Application Description

	A	B
Application Date:	6/9/06	6/23/06
Time of Day:	1:00	11:00
Application Method:	SPRAY	SPRAY
Application Timing:	EPOST	3DPF
Application Placement:	BROFOL	BROFOL
Air Temperature, Unit:	99 F	94 F
% Relative Humidity:	39	44
Wind Velocity, Unit:	3 MPH	0 MPH
Wind Direction:	NE	
Soil Temperature, Unit:	90 F	96 F
Soil Moisture:	WET	DRY
% Cloud Cover:	0	30

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Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ORYSA BRIC	ORYSA BRIC
Stage Scale Used:	BBCH	BBCH
Stage Majority, Percent:	2 leaf 100	4 leaf 100
Height, Unit:	3 In	7.5 In
Height Minimum, Maximum:	3 3.5	7 8
Crop 2 Code, BBCH Scale:	ORYSA BRIC	ORYSA BRIC
Stage Scale Used:	BBCH	BBCH
Stage Majority, Percent:		2 leaf 100
Height, Unit:		3 In
Height Minimum, Maximum:		2.5 3
Stage Scale Used:	BBCH	BBCH
Stage Majority, Percent:	NA	

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Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	ECHCG W	ECHCG W
Stage Majority, Percent:	3-4 LF 100	1 till 100
Height, Unit:	1.5 IN	4.5 IN
Height Minimum, Maximum:	1 2	4 5
Pest 2 Code, Disc., Scale:	LEFPA W	LEFPA W
Stage Majority, Percent:	4-5 lf 100	4 leaf 100
Height, Unit:	1.5 IN	7 IN
Height Minimum, Maximum:	1 2	6 8
Pest 3 Code, Disc., Scale:	SEBEX W	SEBEX W
Stage Majority, Percent:	2 leaf 100	8 leaf 100
Height, Unit:	3 IN	7 IN
Height Minimum, Maximum:	3 3	6 8
Pest 4 Code, Disc., Scale:	CNPPA W	CNPPA W
Stage Majority, Percent:	4 LF 100	6 lf 100
Height, Unit:	3 IN	7 IN
Height Minimum, Maximum:	2 4	6 8
Pest 5 Code, Disc., Scale:	CYPIR W	CYPIR W
Stage Majority, Percent:	3-4 lf 100	-- 100
Height, Unit:	2.5 IN	3 IN
Height Minimum, Maximum:	2 3	2 4
Pest 6 Code, Disc., Scale:	ECHCG W	ECHCG W
Stage Majority, Percent:	N/A	2-3 LF 100
Height, Unit:		0.75 IN
Height Minimum, Maximum:		0.5 1
Pest 7 Code, Disc., Scale:	LEFPA W	LEFPA W
Stage Majority, Percent:	N/A	1-2 LF 100
Height, Unit:		0.5 IN
Height Minimum, Maximum:		0.25 0.5
Pest 8 Code, Disc., Scale:	SEBEX W	SEBEX W
Stage Majority, Percent:	N/A	1 LF 100
Height, Unit:		2.5 IN
Height Minimum, Maximum:		1 5
Pest 9 Code, Disc., Scale:	CNPPA W	CNPPA W
Stage Majority, Percent:	N/A	3-4 LF 100
Height, Unit:		2.5 IN
Height Minimum, Maximum:		2 3
Pest10 Code, Disc., Scale:	CYPIR W	CYPIR W
Stage Majority, Percent:	N/A	3 LF
Height, Unit:		0.75 IN
Height Minimum, Maximum:		0.5 1

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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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Location:

Protocol ID: SJ06R017
Study Director:
Investigator: Bill Williams

Pest Type		ECHCG	ECHCG	ECHCG	ECHCG	ECHCG	SEBEX	SEBEX	SEBEX	SEBEX
Pest Code										
Crop Code										
BBCH Scale										
Part Rated		PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date		6/15/06	6/20/06	7/7/06	7/14/06	7/21/06	6/15/06	6/20/06	7/7/06	7/14/06
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		%	%	%	%	%	%	%	%	%
Days After First/Last Applic.		6 6	11 11	28 14	35 21	42 28	6 6	11 11	28 14	35 21
Trt-Eval Interval		6 DA-A	11 DA-A	14 DA-B	21 DA-B	28 DA-B	6 DA-A	11 DA-A	14 DA-B	21 DA-B
ARM Action Codes										
Number of Decimals										
Trt Treatment	Rate	1	2	3	4	5	6	7	8	9
No. Name	Unit									
1 Ricestar	15 oz/a	81.7 a	90.0 a	90.0 a	90.0 a	90.0 b	0.0 a	0.0 a	93.3 a	81.7 b
V-10142	0.2 lb ai/a									
Dyne-A-Pak	1.5 % v/v									
2 Ricestar	15 oz/a	81.7 a	90.0 a	90.0 a	91.7 a	95.0 a	0.0 a	0.0 a	93.3 a	90.0 a
Regiment	0.4 oz/a									
Dyne-A-Pak	1.5 % v/v									
3 Ricestar	15 oz/a	81.7 a	90.0 a	86.7 a	91.7 a	95.0 a	0.0 a	0.0 a	95.0 a	93.3 a
Regiment	0.4 oz/a									
V-10142	0.2 lb ai/a									
Dyne-A-Pak	1.5 % v/v									
4 Ricestar	15 oz/a	80.0 a	90.0 a	90.0 a	91.7 a	95.0 a	0.0 a	0.0 a	95.0 a	95.0 a
Regiment	0.4 oz/a									
V-10142	0.15 lb ai/a									
Dyne-A-Pak	1.5 % v/v									
5 Ricestar	15 oz/a	83.3 a	88.3 a	83.3 a	91.7 a	95.0 a	0.0 a	0.0 a	95.0 a	91.7 a
Regiment	0.4 oz/a									
V-10142	0.1 lb ai/a									
Dyne-A-Pak	1.5 % v/v									
6 Ricestar	15 oz/a	86.7 a	90.0 a	86.7 a	90.0 a	95.0 a	0.0 a	0.0 a	95.0 a	93.3 a
Regiment	0.4 oz/a									
V-10142	0.05 lb ai/a									
Dyne-A-Pak	1.5 % v/v									
7 Ricestar	15 oz/a	86.7 a	90.0 a	86.7 a	90.0 a	95.0 a	0.0 a	0.0 a	95.0 a	93.3 a
Regiment	0.4 oz/a									
V-10142	0.025 lb ai/a									
Dyne-A-Pak	1.5 % v/v									
8 Ricestar	15 oz/a	83.3 a	90.0 a	88.3 a	91.7 a	95.0 a	0.0 a	0.0 a	95.0 a	95.0 a
Regiment	0.4 oz/a									
V-10142	0.013 lb ai/a									
Dyne-A-Pak	1.5 % v/v									
9 nontreated		0.0 b	0.0 b	0.0 b	0.0 b	0.0 c	0.0 a	0.0 a	0.0 b	0.0 c
LSD (P=.05)		6.12	4.96	4.41	2.63	0.00	0.00	0.00	2.20	5.27
Standard Deviation		3.54	2.87	2.55	1.52	0.00	0.00	0.00	1.27	3.04
CV		4.78	3.59	3.27	1.88	0.0	0.0	0.0	1.51	3.73
Bartlett's X2		2.564	0.644	1.77	0.0	0.0	0.0	0.0	0.0	4.811
P(Bartlett's X2)		0.861	0.986	0.778	1.00	.	.	.	1.00	0.439
Replicate F		4.667	14.310	2.286	10.000	0.000	0.000	0.000	2.286	7.300
Replicate Prob(F)		0.0253	0.0003	0.1339	0.0015	1.0000	1.0000	1.0000	0.1339	0.0056
Treatment F		185.500	327.155	397.857	1194.400	0.000	0.000	0.000	1841.286	307.900
Treatment Prob(F)		0.0001	0.0001	0.0001	0.0001	1.0000	1.0000	1.0000	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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Pest Type	SEBEX	W Weed ECLAL	ECLAL	ECLAL	ECLAL	AMMCO	CYPES	CYPES	CYPES
Pest Code									
Crop Code									
BBCH Scale									
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date	7/21/06	6/20/06	7/7/06	7/14/06	7/21/06	7/21/06	6/15/06	6/20/06	7/7/06
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%	%	%
Days After First/Last Applic.	42 28	11 11	28 14	35 21	42 28	42 28	6 6	11 11	28 14
Trt-Eval Interval	28 DA-B	11 DA-A	14 DA-B	21 DA-B	28 DA-B	28 DA-B	6 DA-A	11 DA-A	14 DA-B
ARM Action Codes									
Number of Decimals									
Trt Treatment									
No. Name	10	11	12	13	14	15	16	17	18
Rate									
Unit									
1 Ricestar	85.0 b	0.0 a	66.7 b	76.7 b	70.0 c	60.0 b	0.0 a	0.0 a	85.0 a
V-10142									
Dyne-A-Pak									
2 Ricestar	93.3 a	0.0 a	90.0 a	80.0 b	80.0 b	95.0 a	0.0 a	0.0 a	93.3 a
Regiment									
Dyne-A-Pak									
3 Ricestar	93.3 a	0.0 a	91.7 a	91.7 a	91.7 a	95.0 a	0.0 a	0.0 a	88.3 a
Regiment									
V-10142									
Dyne-A-Pak									
4 Ricestar	93.3 a	0.0 a	93.3 a	93.3 a	91.7 a	95.0 a	0.0 a	0.0 a	91.7 a
Regiment									
V-10142									
Dyne-A-Pak									
5 Ricestar	93.3 a	0.0 a	93.3 a	93.3 a	91.7 a	95.0 a	0.0 a	0.0 a	95.0 a
Regiment									
V-10142									
Dyne-A-Pak									
6 Ricestar	93.3 a	0.0 a	86.7 a	93.3 a	90.0 a	95.0 a	0.0 a	0.0 a	95.0 a
Regiment									
V-10142									
Dyne-A-Pak									
7 Ricestar	93.3 a	0.0 a	91.7 a	91.7 a	91.7 a	95.0 a	0.0 a	0.0 a	88.3 a
Regiment									
V-10142									
Dyne-A-Pak									
8 Ricestar	93.3 a	0.0 a	86.7 a	93.3 a	91.7 a	95.0 a	0.0 a	0.0 a	91.7 a
Regiment									
V-10142									
Dyne-A-Pak									
9 nontreated	0.0 c	0.0 a	0.0 c	0.0 c	0.0 d	0.0 c	0.0 a	0.0 a	0.0 b
LSD (P=.05)	4.52	0.00	6.84	5.65	7.12	0.00	0.00	0.00	7.81
Standard Deviation	2.61	0.00	3.95	3.26	4.11	0.00	0.00	0.00	4.51
CV	3.19	0.0	5.08	4.12	5.3	0.0	0.0	0.0	5.58
Bartlett's X2	1.198	0.0	3.972	2.889	6.794	0.0	0.0	0.0	4.069
P(Bartlett's X2)	0.991	.	0.783	0.823	0.236	.	.	.	0.54
Replicate F	4.203	0.000	3.733	4.522	0.384	0.000	0.000	0.000	0.182
Replicate Prob(F)	0.0341	1.0000	0.0467	0.0278	0.6875	1.0000	1.0000	1.0000	0.8355
Treatment F	419.119	0.000	176.400	260.239	160.411	0.000	0.000	0.000	137.261
Treatment Prob(F)	0.0001	1.0000	0.0001	0.0001	0.0001	1.0000	1.0000	1.0000	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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Pest Type				
Pest Code		CYPES		
Crop Code			ORYSA	ORYSA
BBCH Scale			BRIC	BRIC
Part Rated		PLATOT P	GRAIN C	GRAIN C
Rating Date		7/14/06	9/13/06	9/13/06
Rating Data Type		CONTROL	YIELD	YIELD
Rating Unit		%	lb/plpt	BU
Days After First/Last Applic.		35 21	96 82	96 82
Trt-Eval Interval		21 DA-B		
ARM Action Codes				TY1
Number of Decimals				0
Trt No.	Treatment Name	Rate	Unit	
1	Ricestar V-10142 Dyne-A-Pak	15 oz/a 0.2 lb ai/a 1.5 % v/v		73.3 a 8.97 a 135 a
2	Ricestar Regiment Dyne-A-Pak	15 oz/a 0.4 oz/a 1.5 % v/v		88.3 a 8.90 a 134 a
3	Ricestar Regiment V-10142 Dyne-A-Pak	15 oz/a 0.4 oz/a 0.2 lb ai/a 1.5 % v/v		88.3 a 8.47 a 127 a
4	Ricestar Regiment V-10142 Dyne-A-Pak	15 oz/a 0.4 oz/a 0.15 lb ai/a 1.5 % v/v		85.0 a 8.60 a 129 a
5	Ricestar Regiment V-10142 Dyne-A-Pak	15 oz/a 0.4 oz/a 0.1 lb ai/a 1.5 % v/v		76.7 a 9.13 a 137 a
6	Ricestar Regiment V-10142 Dyne-A-Pak	15 oz/a 0.4 oz/a 0.05 lb ai/a 1.5 % v/v		83.3 a 9.20 a 138 a
7	Ricestar Regiment V-10142 Dyne-A-Pak	15 oz/a 0.4 oz/a 0.025 lb ai/a 1.5 % v/v		71.7 a 8.80 a 132 a
8	Ricestar Regiment V-10142 Dyne-A-Pak	15 oz/a 0.4 oz/a 0.013 lb ai/a 1.5 % v/v		81.7 a 8.60 a 129 a
9	nontreated			0.0 b 0.20 b 3 b
LSD (P=.05)		20.03	0.903	13.6
Standard Deviation		11.57	0.522	7.8
CV		16.06	6.63	6.63
Bartlett's X2		5.972	8.298	8.297
P(Bartlett's X2)		0.543	0.405	0.405
Replicate F		4.757	0.629	0.630
Replicate Prob(F)		0.0239	0.5456	0.5454
Treatment F		17.172	91.910	91.912
Treatment Prob(F)		0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
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ARM Action Codes TY1 = 15.03333*[C20]
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