

LSU Northeast Research Station

Evaluation to Harmony GT and Express for preplant weed control in drill-seeded rice.

Trial ID: SJ07R005 Protocol ID: SJ07R005
 Location: Study Director: USA-07-462
 Investigator: Bill Williams

General Trial Information

Study Director: USA-07-462
 Investigator: Bill Williams

Crop Description

Crop 1: ORYSA Oryza sativa Common rice
Variety: Cocodrie **Description:** 5/22/07
BBCH Scale: BRIC
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

Crop 2: ORYSA Oryza sativa Common rice
Variety: Cocodrie
BBCH Scale: BRIC **Planting Date:** 22/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

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.	15/May/07	0.02	IN	
4.	16/May/07	0.01	IN	
5.	17/May/07	0.01	IN	
6.	23/May/07			FLUSH
7.	30/May/07			FLUSH
8.	3/Jun/07	0.02	IN	
9.	16/Jun/07	0.01	IN	
10.	18/Jun/07	0.02	IN	
11.	19/Jun/07	0.4	IN	
12.	28/Jun/07			FERTILIZE - 300# prilled urea
13.	28/Jun/07			FLOOD
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:	14/May/07
Application Method:	SPRAY
Application Timing:	7 DPP
Application Placement:	BROSOI
Air Temperature, Unit:	89 F
% Relative Humidity:	40
Wind Velocity, Unit:	3.2 MPH
Wind Direction:	NE
Soil Temperature, Unit:	80 F
% Cloud Cover:	0

Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale:	ORYSA BRIC
Stage Scale Used:	N/A
Crop 2 Code, BBCH Scale:	ORYSA BRIC
Stage Scale Used:	N/A

Pest Stage At Each Application

A

Stage Majority, Percent:	N/A
Stage Majority, Percent:	N/A

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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Evaluation to Harmony GT and Express for preplant weed control in drill-seeded rice.

Trial ID: SJ07R005 Protocol ID: SJ07R005
 Location: Study Director: USA-07-462
 Investigator: Bill Williams

Pest Type	GLXMA						
Pest Code	GLXMA						
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA			
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P			
Rating Date	30/May/07	1/Jun/07	8/Jun/07	19/Jun/07			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%			
Trt-Eval Interval	16 DA-A	18 DA-A	25 DA-A	36 DA-A			
Trt Treatment	Rate	Growth					
No. Name	Rate Unit	Stage	1	2	3	4	
1 Harmony GT	0.2 OZ A/A	7 DPP	77	b 88	a 93	a 85	a
Express	0.2 OZ A/A	7 DPP					
AgriDex	0.5 % V/V	7 DPP					
2 Harmony GT	0.125 OZ A/A	7 DPP	90	a 93	a 92	a 83	a
Express	0.125 OZ A/A	7 DPP					
Roundup Weathermax	22 OZ/A	7 DPP					
3 Harmony GT	0.2 OZ A/A	7 DPP	70	b 92	a 90	a 80	a
Express	0.2 OZ A/A	7 DPP					
Roundup Weathermax	22 OZ/A	7 DPP					
4 Harmony GT	0.125 OZ A/A	7 DPP	88	a 92	a 88	a 87	a
Express	0.125 OZ A/A	7 DPP					
Roundup Weathermax	22 OZ/A	7 DPP					
2,4-D Ester	24 OZ/A	7 DPP					
5 Roundup Weathermax	22 OZ/A	7 DPP	0	c 0	b 0	b 0	b
6 Roundup Weathermax	22 OZ/A	7 DPP	90	a 95	a 92	a 87	a
2,4-D Ester	24 OZ/A	7 DPP					
7 non-treated			0	c 0	b 0	b 0	b
LSD (P=.10)			7.8	5.3	3.2	7.1	
Standard Deviation			5.4	3.6	2.2	4.9	
CV			9.08	5.55	3.43	8.07	
Grand Mean			59.29	65.71	65.0	60.24	
Bartlett's X2			1.391	3.157	0.0	0.466	
P(Bartlett's X2)			0.846	0.368	.	0.977	
Replicate F			2.342	0.269	0.720	1.412	
Replicate Prob(F)			0.1384	0.7689	0.5066	0.2814	
Treatment F			175.658	455.702	1193.920	215.815	
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	

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							
Pest Code	SEBEX SEBEX						
Crop Code	GLXMA GLXMA						
Part Rated	PLATOT P PLATOT P PLATOT P PLATOT P						
Rating Date	17/Jul/07 17/Aug/07 30/May/07 1/Jan/07						
Rating Data Type	CONTROL CONTROL CONTROL CONTROL						
Rating Unit	% % % %						
Trt-Eval Interval	64 DA-A 95 DA-A 16 DA-A 18 DA-A						
Trt Treatment	Rate	Growth					
No. Name	Rate Unit	Stage	5	6	7	8	
1 Harmony GT	0.2 OZ A/A	7 DPP	93	a 95	a 95	a 92	a
Express	0.2 OZ A/A	7 DPP					
Agridex	0.5 % V/V	7 DPP					
2 Harmony GT	0.125 OZ A/A	7 DPP	93	a 95	a 95	a 93	a
Express	0.125 OZ A/A	7 DPP					
Roundup Weathermax	22 OZ/A	7 DPP					
3 Harmony GT	0.2 OZ A/A	7 DPP	93	a 95	a 95	a 95	a
Express	0.2 OZ A/A	7 DPP					
Roundup Weathermax	22 OZ/A	7 DPP					
4 Harmony GT	0.125 OZ A/A	7 DPP	93	a 95	a 95	a 93	a
Express	0.125 OZ A/A	7 DPP					
Roundup Weathermax	22 OZ/A	7 DPP					
2,4-D Ester	24 OZ/A	7 DPP					
5 Roundup Weathermax	22 OZ/A	7 DPP	0	b 32	b 93	a 93	a
6 Roundup Weathermax	22 OZ/A	7 DPP	93	a 95	a 95	a 95	a
2,4-D Ester	24 OZ/A	7 DPP					
7 non-treated			0	b 0	c 0	b 0	b
LSD (P=.10)			2.0	30.2	1.6	3.0	
Standard Deviation			1.4	20.7	1.1	2.0	
CV			2.11	28.64	1.34	2.54	
Grand Mean			66.67	72.38	81.19	80.24	
Bartlett's X2			0.0	0.0	0.0	0.0	
P(Bartlett's X2)			1.00	.	.	.	
Replicate F			15.000	1.000	1.000	2.000	
Replicate Prob(F)			0.0005	0.3966	0.3966	0.1780	
Treatment F			3136.000	11.000	3231.000	902.286	
Treatment Prob(F)			0.0001	0.0003	0.0001	0.0001	

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Pest Type	SEBEX						
Pest Code	SEBEX	SEBEX	SEBEX	SEBEX			
Crop Code							
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P			
Rating Date	8/Jun/07	19/Jun/07	17/Jul/07	17/Aug/07			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%			
Trt-Eval Interval	25 DA-A	36 DA-A	64 DA-A	95 DA-A			
Trt Treatment	Rate	Growth					
No. Name	Rate Unit	Stage	9	10	11	12	
1 Harmony GT	0.2 OZ A/A	7 DPP	88	a 80	b 93	a 95	a
Express	0.2 OZ A/A	7 DPP					
Agridex	0.5 % V/V	7 DPP					
2 Harmony GT	0.125 OZ A/A	7 DPP	93	a 92	a 93	a 95	a
Express	0.125 OZ A/A	7 DPP					
Roundup Weathermax	22 OZ/A	7 DPP					
3 Harmony GT	0.2 OZ A/A	7 DPP	93	a 90	a 93	a 95	a
Express	0.2 OZ A/A	7 DPP					
Roundup Weathermax	22 OZ/A	7 DPP					
4 Harmony GT	0.125 OZ A/A	7 DPP	87	a 90	a 93	a 95	a
Express	0.125 OZ A/A	7 DPP					
Roundup Weathermax	22 OZ/A	7 DPP					
2,4-D Ester	24 OZ/A	7 DPP					
5 Roundup Weathermax	22 OZ/A	7 DPP	93	a 93	a 93	a 95	a
6 Roundup Weathermax	22 OZ/A	7 DPP	93	a 90	a 93	a 95	a
2,4-D Ester	24 OZ/A	7 DPP					
7 non-treated			0	b 0	c 0	b 0	b
LSD (P=.10)			4.1	5.7	1.6	0.0	
Standard Deviation			2.9	3.9	1.1	0.0	
CV			3.64	5.11	1.36	0.0	
Grand Mean			78.33	76.43	80.0	81.43	
Bartlett's X2			0.0	4.018	0.0	0.0	
P(Bartlett's X2)			1.00	0.134	1.00	.	
Replicate F			0.146	1.636	36.000	0.000	
Replicate Prob(F)			0.8654	0.2353	0.0001	1.0000	
Treatment F			442.878	226.623	3136.000	0.000	
Treatment Prob(F)			0.0001	0.0001	0.0001	1.0000	

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Pest Type								
Pest Code								
Crop Code	ORYSA	ORYSA	ORYSA	ORYSA	ORYSA			
Part Rated	PLATOT	CPLATOT	CPLATOT	CPLATOT	CYIELD C			
Rating Date	1/Jan/07	19/Jan/07	17/Feb/07	17/Mar/07	8/Oct/07			
Rating Data Type	Injury	Injury	Injury	Injury	Reduction			
Rating Unit	%	%	%	%	%			
Trt-Eval Interval	18 DA-A	36 DA-A	64 DA-A	95 DA-A	147 DA-A			
Trt Treatment	Rate	Growth						
No.Name	Rate Unit	Stage	13	14	15	16	17	
1 Harmony GT	0.2 OZ A/A7 DPP	0		a0	a0	a0	a0	a
Express	0.2 OZ A/A7 DPP							
AgriDex	0.5 % V/V 7 DPP							
2 Harmony GT	0.125 OZ A/A7 DPP	0		a0	a0	a0	a0	a
Express	0.125 OZ A/A7 DPP							
Roundup Weathermax	22 OZ/A 7 DPP							
3 Harmony GT	0.2 OZ A/A7 DPP	0		a0	a0	a0	a0	a
Express	0.2 OZ A/A7 DPP							
Roundup Weathermax	22 OZ/A 7 DPP							
4 Harmony GT	0.125 OZ A/A7 DPP	0		a0	a0	a0	a0	a
Express	0.125 OZ A/A7 DPP							
Roundup Weathermax	22 OZ/A 7 DPP							
2,4-D Ester	24 OZ/A 7 DPP							
5 Roundup Weathermax	22 OZ/A 7 DPP	0		a0	a0	a0	a0	a
6 Roundup Weathermax	22 OZ/A 7 DPP	0		a0	a0	a0	a0	a
2,4-D Ester	24 OZ/A 7 DPP							
7 non-treated		0		a0	a0	a0	a0	a
LSD (P=.10)		0.0		0.0	0.0	0.0	0.0	0.0
Standard Deviation		0.0		0.0	0.0	0.0	0.0	0.0
CV		0.0		0.0	0.0	0.0	0.0	0.0
Grand Mean		0.0		0.0	0.0	0.0	0.0	0.0
Bartlett's X2		0.0		0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)	
Replicate F		0.000		0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)		1.0000		1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F		0.000		0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)		1.0000		1.0000	1.0000	1.0000	1.0000	1.0000

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