

LSU Northeast Research Station

Sequential applications of Permit for weed control in drill-seeded rice.

Trial ID: SJ06R006
Location:

Protocol ID: SJ06R006
Study Director:
Investigator: Bill Williams

General Trial Information

Investigator: Bill Williams

Conclusions:

The goal of this trial was to determine if there are any benefits to using Permit preemergence on drill-seeded rice grown on stale seedbeds. All treatments received Roundup 4 weeks before planting. All plots were treated with 22 oz/A Roundup Weathermax plus 1.33 pt/A Command immediately following planting. Some plots also received 0.33, 0.66, 1.0, or 1.33 oz/A Permit mixed with Roundup Weathermax plus Command at planting. All plots, except the Roundup alone treatment, received a follow-up treatment just before permanent flood of Regiment alone or Regiment plus Permit at several rates. Overall, the best rice yields were observed when Permit was included in the preemergence program. This was primarily due to improved early season sesbania and sedge control. Follow-up treatments just before flood were required to maintain season long control of all weeds.

Crop Description

Crop 1: ORYSA *Oryza sativa* Common rice
Variety: Trainasse **Description:** 5/24/06
BBCH Scale: BRIC **Planting Date:** 5/24/06
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
Harvested Width, Unit: 5 FT **Harvest Equipment:** Small plot combine
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: Hemp sesbania

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:** COMDI *Commelina diffusa*
Common Name: Spreading dayflower

Pest 7 Type: W **Code:** ECLAL *Eclipta alba*
Common Name: Eclipta

Pest 8 Type: W **Code:** CYPES *Cyperus esculentus*
Common Name: Yellow Nutsedge

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

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Maintenance

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

Soil Description

Description Name: Bay 4 - South End
% Sand: 16 **% OM:** 1.06 **Texture:** Silty Clay Loam
% Silt: 54 **pH:** 7.88 **Soil Name:** Mhoon
% Clay: 30 **CEC:** 13.7 **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				Fertilizer		
14.	6/28/06				Permanent Flood		
15.	7/3/06	1:00 pm	0.07	In	Rain	0.5	Hou
16.	7/4/06	3:00 pm	0.69	In	Rain	1.5	Hou
17.	7/4/06	7:00 am				1	Hou
18.	7/5/06	12:00 a	1.25	In	Rain	0.75	Hou
19.	7/5/06	6:00pm				1.5	Hou
20.	7/6/06	6:00 pm	0.35	In	Rain	3.5	Hou
21.	7/11/06	2:00 pm	0.45	In	Rain	2	Hou

Application Description

	A	B
Application Date:	5/25/06	6/23/06
Time of Day:	8:30	11:00
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	3 DPF
Application Placement:	BANSOI	BANFOL
Air Temperature, Unit:	72 F	94 F
% Relative Humidity:	68	44
Wind Velocity, Unit:	3 MPH	0 MPH
Wind Direction:	N	
Soil Temperature, Unit:	81 F	96 F
Soil Moisture:	DRY	DRY
% Cloud Cover:	30	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:	N/A	3 TILL 100
Height, Unit:		8 IN
Height Minimum, Maximum:		8 8

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	ECHCG W	ECHCG W
Stage Majority, Percent:	N/A	3 TILL 100
Height, Unit:		6 IN
Height Minimum, Maximum:		6 6
Pest 2 Code, Disc., Scale:	LEFPA W	LEFPA W
Stage Majority, Percent:	N/A	3 TILL 100
Height, Unit:		4 IN
Height Minimum, Maximum:		4 4
Pest 3 Code, Disc., Scale:	SEBEX W	SEBEX W
Stage Majority, Percent:	N/A	
Height, Unit:		6 IN
Height Minimum, Maximum:		6 6
Pest 4 Code, Disc., Scale:	CNPPA W	CNPPA W
Stage Majority, Percent:	N/A	6-8 LF 100
Height, Unit:		6 IN
Height Minimum, Maximum:		6 6
Pest 5 Code, Disc., Scale:	CYPIR W	CYPIR W
Stage Majority, Percent:	N/A	4 LF 100
Height, Unit:		2.5 IN
Height Minimum, Maximum:		2.5 2.5
Pest 6 Code, Disc., Scale:	COMDI W	COMDI W
Stage Majority, Percent:	N/A	runner 100
Height, Unit:		3 IN
Height Minimum, Maximum:		3 3
Pest 7 Code, Disc., Scale:	ECLAL W	ECLAL W
Stage Majority, Percent:	N/A	4 lf 100
Height, Unit:		2 IN
Height Minimum, Maximum:		2 2
Pest 8 Code, Disc., Scale:	CYPES W	CYPES W
Stage Majority, Percent:	N/A	
Height, Unit:		9 IN
Height Minimum, Maximum:		9 9

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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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Sequential applications of Permit for weed control in drill-seeded rice.

Trial ID: SJ06R006
Location:

Protocol ID: SJ06R006
Study Director:
Investigator: Bill Williams

Pest Type	W Weed	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG	W Weed
Pest Code	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG	LEFPA
Pest Name	Common barn>	Common barn>	Common barn>	Common barn>	Common barn>	Common barn>	Amazon spra>
Crop Code							
BBCH Scale							
Crop Name							
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date	5/31/06	6/10/06	6/30/06	7/7/06	7/21/06	7/21/06	6/30/06
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%
Days After First/Last Applic.	6 6	16 16	36 7	43 14	57 28	57 28	36 7
Trt-Eval Interval	6 DA-A	16 DA-A	7 DA-B	14 DA-B	28 DA-B	28 DA-B	7 DA-B
Plant-Eval Interval	7 DP-1	17 DP-1	37 DP-1	44 DP-1	58 DP-1	58 DP-1	37 DP-1
ARM Action Codes							
Number of Decimals							
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Unit	Unit	Unit	Unit	Unit	Unit	Unit
1 Roundup Weathermax	22 oz/a	95.0 a	90.0 a	93.3 a	90.0 a	95.0 a	76.7 a-d
Permit	0.33 oz/a						
Command	1.33 pt/a						
Regiment	0.5 oz/a						
Kinetic	0.25 % v/v						
2 Roundup Weathermax	22 oz/a	95.0 a	91.7 a	93.3 a	88.3 a	95.0 a	56.7 fg
Permit	0.66 oz/a						
Command	1.33 pt/a						
Regiment	0.5 oz/a						
Kinetic	0.25 % v/v						
3 Roundup Weathermax	22 oz/a	95.0 a	91.7 a	93.3 a	88.3 a	95.0 a	71.7 bcd
Permit	1.0 oz/a						
Command	1.33 pt/a						
Regiment	0.5 oz/a						
Kinetic	0.25 % v/v						
4 Roundup Weathermax	22 oz/a	95.0 a	91.7 a	93.3 a	90.0 a	95.0 a	85.0 a
Permit	1.33 oz/a						
Command	1.33 pt/a						
Regiment	0.5 oz/a						
Kinetic	0.25 % v/v						
5 Roundup Weathermax	22 oz/a	95.0 a	91.7 a	93.3 a	90.0 a	95.0 a	68.3 cde
Permit	0.33 oz/a						
Command	1.33 pt/a						
Regiment	0.5 oz/a						
Permit	1 oz/a						
Kinetic	0.25 % v/v						
6 Roundup Weathermax	22 oz/a	95.0 a	91.7 a	91.7 a	88.3 a	95.0 a	81.7 ab
Permit	0.66 oz/a						
Command	1.33 pt/a						
Regiment	0.5 oz/a						
Permit	0.66 oz/a						
Kinetic	0.25 % v/v						
7 Roundup Weathermax	22 oz/a	95.0 a	91.7 a	93.3 a	90.0 a	95.0 a	78.3 abc
Permit	1.0 oz/a						
Command	1.33 pt/a						
Regiment	0.5 oz/a						
Permit	0.33 oz/a						
Kinetic	0.25 % v/v						
8 Roundup Weathermax	22 oz/a	95.0 a	90.0 a	93.3 a	91.7 a	95.0 a	76.7 a-d
Command	1.33 pt/a						
Regiment	0.5 oz/a						
Permit	0.33 oz/a						
Kinetic	0.25 % v/v						

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Pest Type	W Weed	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG	W Weed
Pest Code	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG	ECHCG	LEFPA
Pest Name	Common barn>	Common barn>	Common barn>	Common barn>	Common barn>	Common barn>	Amazon spra>
Crop Code							
BBCH Scale							
Crop Name							
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date	5/31/06	6/10/06	6/30/06	7/7/06	7/21/06	6/30/06	6/30/06
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%
Days After First/Last Applic.	6 6	16 16	36 7	43 14	57 28	36 7	36 7
Trt-Eval Interval	6 DA-A	16 DA-A	7 DA-B	14 DA-B	28 DA-B	7 DA-B	7 DA-B
Plant-Eval Interval	7 DP-1	17 DP-1	37 DP-1	44 DP-1	58 DP-1	37 DP-1	37 DP-1
ARM Action Codes							
Number of Decimals							
Trt Treatment	Rate						
No. Name	Rate Unit	1	2	3	4	5	6
9 Roundup Weathermax	22 oz/a	95.0 a	90.0 a	93.3 a	90.0 a	95.0 a	66.7 def
Command	1.33 pt/a						
Regiment	0.5 oz/a						
Permit	0.66 oz/a						
Kinetic	0.25 % v/v						
10 Roundup Weathermax	22 oz/a	95.0 a	90.0 a	91.7 a	86.7 a	95.0 a	56.7 fg
Command	1.33 pt/a						
Regiment	0.5 oz/a						
Permit	1.0 oz/a						
Kinetic	0.25 % v/v						
11 Roundup Weathermax	22 oz/a	95.0 a	90.0 a	93.3 a	88.3 a	95.0 a	50.0 g
Command	1.33 pt/a						
Regiment	0.5 oz/a						
Permit	1.33 oz/a						
Kinetic	0.25 % v/v						
12 Roundup Weathermax	22 oz/a	95.0 a	90.0 a	93.3 a	86.7 a	95.0 a	60.0 efg
Command	1.33 pt/a						
Regiment	0.5 oz/a						
Kinetic	0.25 % v/v						
13 Roundup Weathermax	22 oz/a	95.0 a	90.0 a	91.7 a	86.7 a	95.0 a	50.0 g
Command	1.33 pt/a						
Regiment	0.5 oz/a						
Permit	0.5 oz/a						
Kinetic	0.25 % v/v						
14 Roundup Weathermax	22 oz/a	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	0.0 h
LSD (P=.05)		0.00	2.49	2.66	3.85	0.00	7.51
Standard Deviation		0.00	1.48	1.59	2.29	0.00	4.47
CV		0.0	1.76	1.84	2.78	0.0	7.13
Bartlett's X2		0.0	0.0	3.745	1.279	0.0	4.536
P(Bartlett's X2)		.	1.00	0.988	0.996	.	0.873
Replicate F		0.000	9.750	49.873	4.409	0.000	3.243
Replicate Prob(F)		1.0000	0.0007	0.0001	0.0225	1.0000	0.0553
Treatment F		0.000	804.250	735.727	322.548	0.000	68.661
Treatment Prob(F)		1.0000	0.0001	0.0001	0.0001	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			W Weed			
Pest Code		LEFPA	LEFPA	SEBEX	SEBEX	SEBEX
Pest Name		Amazon spr>	Amazon spr>	Hemp sesban>	Hemp sesban>	Hemp sesban>
Crop Code						
BBCH Scale						
Crop Name						
Part Rated		PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date		7/7/06	7/21/06	5/31/06	6/10/06	6/30/06
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		%	%	%	%	%
Days After First/Last Applic.		43 14	57 28	6 6	16 16	36 7
Trt-Eval Interval		14 DA-B	28 DA-B	6 DA-A	16 DA-A	7 DA-B
Plant-Eval Interval		44 DP-1	58 DP-1	7 DP-1	17 DP-1	37 DP-1
ARM Action Codes						
Number of Decimals						
Trt Treatment	Rate					
No. Name	Rate Unit	7	8	9	10	11
1 Roundup Weathermax	22 oz/a	71.7 abc	70.0 ab	95.0 a	80.0 b	94.7 a
Permit	0.33 oz/a					
Command	1.33 pt/a					
Regiment	0.5 oz/a					
Kinetic	0.25 % v/v					
2 Roundup Weathermax	22 oz/a	46.7 e	30.0 d	95.0 a	90.0 a	90.0 a
Permit	0.66 oz/a					
Command	1.33 pt/a					
Regiment	0.5 oz/a					
Kinetic	0.25 % v/v					
3 Roundup Weathermax	22 oz/a	63.3 cd	30.0 d	95.0 a	90.0 a	88.3 a
Permit	1.0 oz/a					
Command	1.33 pt/a					
Regiment	0.5 oz/a					
Kinetic	0.25 % v/v					
4 Roundup Weathermax	22 oz/a	83.3 a	80.0 a	95.0 a	90.0 a	88.3 a
Permit	1.33 oz/a					
Command	1.33 pt/a					
Regiment	0.5 oz/a					
Kinetic	0.25 % v/v					
5 Roundup Weathermax	22 oz/a	76.7 ab	80.0 a	95.0 a	80.0 b	96.3 a
Permit	0.33 oz/a					
Command	1.33 pt/a					
Regiment	0.5 oz/a					
Permit	1 oz/a					
Kinetic	0.25 % v/v					
6 Roundup Weathermax	22 oz/a	81.7 a	80.0 a	95.0 a	90.0 a	95.0 a
Permit	0.66 oz/a					
Command	1.33 pt/a					
Regiment	0.5 oz/a					
Permit	0.66 oz/a					
Kinetic	0.25 % v/v					
7 Roundup Weathermax	22 oz/a	76.7 ab	70.0 ab	95.0 a	90.0 a	93.3 a
Permit	1.0 oz/a					
Command	1.33 pt/a					
Regiment	0.5 oz/a					
Permit	0.33 oz/a					
Kinetic	0.25 % v/v					
8 Roundup Weathermax	22 oz/a	50.0 de	66.7 ab	0.0 b	0.0 c	95.0 a
Command	1.33 pt/a					
Regiment	0.5 oz/a					
Permit	0.33 oz/a					
Kinetic	0.25 % v/v					
9 Roundup Weathermax	22 oz/a	66.7 bc	56.7 bc	0.0 b	0.0 c	93.3 a
Command	1.33 pt/a					
Regiment	0.5 oz/a					
Permit	0.66 oz/a					
Kinetic	0.25 % v/v					
10 Roundup Weathermax	22 oz/a	60.0 cd	46.7 c	0.0 b	0.0 c	93.3 a
Command	1.33 pt/a					
Regiment	0.5 oz/a					
Permit	1.0 oz/a					
Kinetic	0.25 % v/v					

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Pest Type	LEFPA	LEFPA	W Weed SEBEX	SEBEX	SEBEX	SEBEX	
Pest Code	Amazon spr>	Amazon spr>	Hemp sesban>	Hemp sesban>	Hemp sesban>	Hemp sesban>	
Pest Name							
Crop Code							
BBCH Scale							
Crop Name							
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	
Rating Date	7/7/06	7/21/06	5/31/06	6/10/06	6/30/06	7/7/06	
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit	%	%	%	%	%	%	
Days After First/Last Applic.	43 14	57 28	6 6	16 16	36 7	43 14	
Trt-Eval Interval	14 DA-B	28 DA-B	6 DA-A	16 DA-A	7 DA-B	14 DA-B	
Plant-Eval Interval	44 DP-1	58 DP-1	7 DP-1	17 DP-1	37 DP-1	44 DP-1	
ARM Action Codes							
Number of Decimals							
Trt Treatment							
No. Name							
Rate							
Unit							
7	8	9	10	11	12		
11 Roundup Weathermax	22 oz/a	50.0 de	53.3 c	0.0 b	0.0 c	95.0 a	95.0 a
Command	1.33 pt/a						
Regiment	0.5 oz/a						
Permit	1.33 oz/a						
Kinetic	0.25 % v/v						
12 Roundup Weathermax	22 oz/a	61.7 cd	30.0 d	0.0 b	0.0 c	93.3 a	95.0 a
Command	1.33 pt/a						
Regiment	0.5 oz/a						
Permit	1.33 oz/a						
Kinetic	0.25 % v/v						
13 Roundup Weathermax	22 oz/a	50.0 de	43.3 cd	0.0 b	0.0 c	93.3 a	93.3 a
Command	1.33 pt/a						
Regiment	0.5 oz/a						
Permit	0.5 oz/a						
Kinetic	0.25 % v/v						
14 Roundup Weathermax	22 oz/a	0.0 f	0.0 e	0.0 b	0.0 c	0.0 b	0.0 b
LSD (P=.05)		9.26	10.85	0.00	0.00	4.83	2.06
Standard Deviation		5.52	6.46	0.00	0.00	2.88	1.23
CV		9.22	12.28	0.0	0.0	3.33	1.4
Bartlett's X2		6.347	3.819	0.0	0.0	2.041	0.0
P(Bartlett's X2)		0.785	0.80	.	.	0.991	1.00
Replicate F		0.958	2.965	0.000	0.000	0.141	3.545
Replicate Prob(F)		0.3968	0.0692	1.0000	1.0000	0.8695	0.0435
Treatment F		44.272	41.408	0.000	0.000	225.755	1270.546
Treatment Prob(F)		0.0001	0.0001	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	CYPIR	CYPIR	W Weed CYPIR	CYPIR	CYPIR	CYPES
Pest Code			Hemp sesban>	Rice flatse>	Rice flatse>	Rice flatse>	Rice flatse>	Rice flatse>	Yellow nuts>
Pest Name									
Crop Code									
BBCH Scale									
Crop Name									
Part Rated			PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date			7/21/06	5/31/06	6/10/06	6/30/06	7/7/06	7/21/06	5/31/06
Rating Data Type			CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit			%	%	%	%	%	%	%
Days After First/Last Applic.			57 28	6 6	16 16	36 7	43 14	57 28	6 6
Trt-Eval Interval			28 DA-B	6 DA-A	16 DA-A	7 DA-B	14 DA-B	28 DA-B	6 DA-A
Plant-Eval Interval			58 DP-1	7 DP-1	17 DP-1	37 DP-1	44 DP-1	58 DP-1	7 DP-1
ARM Action Codes									
Number of Decimals									
Trt No.	Treatment Name	Rate	13	14	15	16	17	18	19
1	Roundup Weathermax Permit	22 oz/a	93.3 a	95.0 a	95.0 a	96.3 ab	95.0 a	95.0 a	95.0 a
	Command	0.33 oz/a							
	Regiment	1.33 pt/a							
	Kinetic	0.5 oz/a							
		0.25 % v/v							
2	Roundup Weathermax Permit	22 oz/a	93.3 a	95.0 a	95.0 a	95.0 ab	95.0 a	95.0 a	95.0 a
	Command	0.66 oz/a							
	Regiment	1.33 pt/a							
	Kinetic	0.5 oz/a							
		0.25 % v/v							
3	Roundup Weathermax Permit	22 oz/a	93.3 a	95.0 a	95.0 a	95.0 ab	95.0 a	95.0 a	95.0 a
	Command	1.0 oz/a							
	Regiment	1.33 pt/a							
	Kinetic	0.5 oz/a							
		0.25 % v/v							
4	Roundup Weathermax Permit	22 oz/a	93.3 a	95.0 a	95.0 a	95.0 ab	95.0 a	95.0 a	95.0 a
	Command	1.33 oz/a							
	Regiment	1.33 pt/a							
	Kinetic	0.5 oz/a							
		0.25 % v/v							
5	Roundup Weathermax Permit	22 oz/a	94.7 a	95.0 a	95.0 a	97.7 a	95.0 a	95.0 a	95.0 a
	Command	0.33 oz/a							
	Regiment	1.33 pt/a							
	Permit	0.5 oz/a							
	Kinetic	1 oz/a							
		0.25 % v/v							
6	Roundup Weathermax Permit	22 oz/a	94.7 a	95.0 a	95.0 a	96.3 ab	95.0 a	95.0 a	95.0 a
	Command	0.66 oz/a							
	Regiment	1.33 pt/a							
	Permit	0.5 oz/a							
	Kinetic	0.66 oz/a							
		0.25 % v/v							
7	Roundup Weathermax Permit	22 oz/a	93.3 a	95.0 a	95.0 a	95.0 ab	95.0 a	95.0 a	95.0 a
	Command	1.0 oz/a							
	Regiment	1.33 pt/a							
	Permit	0.5 oz/a							
	Kinetic	0.33 oz/a							
		0.25 % v/v							
8	Roundup Weathermax Command	22 oz/a	94.7 a	0.0 b	0.0 b	91.7 b	95.0 a	95.0 a	0.0 b
	Regiment	1.33 pt/a							
	Permit	0.5 oz/a							
	Kinetic	0.33 oz/a							
		0.25 % v/v							
9	Roundup Weathermax Command	22 oz/a	94.7 a	0.0 b	0.0 b	93.3 ab	95.0 a	95.0 a	0.0 b
	Regiment	1.33 pt/a							
	Permit	0.5 oz/a							
	Kinetic	0.66 oz/a							
		0.25 % v/v							
10	Roundup Weathermax Command	22 oz/a	94.7 a	0.0 b	0.0 b	91.7 b	95.0 a	95.0 a	0.0 b
	Regiment	1.33 pt/a							
	Permit	0.5 oz/a							
	Kinetic	1.0 oz/a							
		0.25 % v/v							

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Pest Type	SEBEX	CYPIR	CYPIR	W Weed CYPIR	CYPIR	CYPIR	CYPES
Pest Code	Hemp sesban>	Rice flatse>	Rice flatse>	Rice flatse>	Rice flatse>	Rice flatse>	Yellow nuts>
Pest Name							
Crop Code							
BBCH Scale							
Crop Name							
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date	7/21/06	5/31/06	6/10/06	6/30/06	7/7/06	7/21/06	5/31/06
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%
Days After First/Last Applic.	57 28	6 6	16 16	36 7	43 14	57 28	6 6
Trt-Eval Interval	28 DA-B	6 DA-A	16 DA-A	7 DA-B	14 DA-B	28 DA-B	6 DA-A
Plant-Eval Interval	58 DP-1	7 DP-1	17 DP-1	37 DP-1	44 DP-1	58 DP-1	7 DP-1
ARM Action Codes							
Number of Decimals							
Trt Treatment							
No. Name							
Rate							
Unit							
	13	14	15	16	17	18	19
11 Roundup Weathermax	94.7 a	0.0 b	0.0 b	91.7 b	95.0 a	95.0 a	0.0 b
Command							
Regiment							
Permit							
Kinetic							
22 oz/a							
1.33 pt/a							
0.5 oz/a							
1.33 oz/a							
0.25 % v/v							
12 Roundup Weathermax	93.3 a	0.0 b	0.0 b	91.7 b	95.0 a	95.0 a	0.0 b
Command							
Regiment							
Permit							
Kinetic							
22 oz/a							
1.33 pt/a							
0.5 oz/a							
1.33 oz/a							
0.25 % v/v							
13 Roundup Weathermax	93.3 a	0.0 b	0.0 b	91.7 b	95.0 a	95.0 a	0.0 b
Command							
Regiment							
Permit							
Kinetic							
22 oz/a							
1.33 pt/a							
0.5 oz/a							
1.33 oz/a							
0.25 % v/v							
14 Roundup Weathermax	0.0 b	0.0 b	0.0 b	0.0 c	0.0 b	0.0 b	0.0 b
LSD (P=.05)	2.50	0.00	0.00	3.31	0.00	0.00	0.00
Standard Deviation	1.49	0.00	0.00	1.97	0.00	0.00	0.00
CV	1.71	0.0	0.0	2.26	0.0	0.0	0.0
Bartlett's X2	2.206	0.0	0.0	0.341	0.0	0.0	0.0
P(Bartlett's X2)	0.999	.	.	1.00	.	.	.
Replicate F	68.172	0.000	0.000	3.990	0.000	0.000	0.000
Replicate Prob(F)	0.0001	1.0000	1.0000	0.0308	1.0000	1.0000	1.0000
Treatment F	851.944	0.000	0.000	490.744	0.000	0.000	0.000
Treatment Prob(F)	0.0001	1.0000	1.0000	0.0001	1.0000	1.0000	1.0000

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.

LSU Northeast Research Station

Pest Type									
Pest Code		CYPES	CYPES	CYPES	CYPES				
Pest Name		Yellow nuts>	Yellow nuts>	Yellow nuts>	Yellow nuts>				
Crop Code									
BBCH Scale						ORYSA BRIC			
Crop Name						Common rice			
Part Rated		PLATOT P	PLATOT P	PLATOT P	PLATOT P	Common rice GRAIN C			
Rating Date		6/10/06	6/30/06	7/7/06	7/21/06	9/13/06			
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	YIELD			
Rating Unit		%	%	%	%	lb/plot			
Days After First/Last Applic.		16 16	36 7	43 14	57 28	111 82			
Trt-Eval Interval		16 DA-A	7 DA-B	14 DA-B	28 DA-B				
Plant-Eval Interval		17 DP-1	37 DP-1	44 DP-1	58 DP-1	112 DP-1			
ARM Action Codes									
Number of Decimals						TY1 0			
Trt No.	Treatment Name	Rate	Unit	20	21	22	23	24	25
1	Roundup Weathermax Permit	22	oz/a	95.0 a	97.7 a	95.0 a	95.0 a	6.23 b	101 b
	Command	0.33	oz/a						
	Regiment	1.33	pt/a						
	Kinetic	0.5	oz/a						
		0.25	% v/v						
2	Roundup Weathermax Permit	22	oz/a	95.0 a	95.0 a	95.0 a	95.0 a	4.57 d	74 d
	Command	0.66	oz/a						
	Regiment	1.33	pt/a						
	Kinetic	0.5	oz/a						
		0.25	% v/v						
3	Roundup Weathermax Permit	22	oz/a	95.0 a	95.0 a	95.0 a	95.0 a	4.40 d	71 d
	Command	1.0	oz/a						
	Regiment	1.33	pt/a						
	Kinetic	0.5	oz/a						
		0.25	% v/v						
4	Roundup Weathermax Permit	22	oz/a	95.0 a	95.0 a	95.0 a	95.0 a	5.53 c	89 c
	Command	1.33	oz/a						
	Regiment	1.33	pt/a						
	Kinetic	0.5	oz/a						
		0.25	% v/v						
5	Roundup Weathermax Permit	22	oz/a	95.0 a	96.0 a	95.0 a	95.0 a	5.97 bc	96 bc
	Command	0.33	oz/a						
	Regiment	1.33	pt/a						
	Permit	0.5	oz/a						
	Kinetic	1	oz/a						
		0.25	% v/v						
6	Roundup Weathermax Permit	22	oz/a	95.0 a	95.0 a	95.0 a	95.0 a	7.60 a	123 a
	Command	0.66	oz/a						
	Regiment	1.33	pt/a						
	Permit	0.5	oz/a						
	Kinetic	0.66	oz/a						
		0.25	% v/v						
7	Roundup Weathermax Permit	22	oz/a	95.0 a	93.3 a	95.0 a	95.0 a	7.23 a	117 a
	Command	1.0	oz/a						
	Regiment	1.33	pt/a						
	Permit	0.5	oz/a						
	Kinetic	0.33	oz/a						
		0.25	% v/v						
8	Roundup Weathermax Command	22	oz/a	0.0 b	80.0 b	95.0 a	95.0 a	1.97 f	32 f
	Regiment	1.33	pt/a						
	Permit	0.5	oz/a						
	Kinetic	0.33	oz/a						
		0.25	% v/v						
9	Roundup Weathermax Command	22	oz/a	0.0 b	80.0 b	95.0 a	95.0 a	1.43 fg	23 fg
	Regiment	1.33	pt/a						
	Permit	0.5	oz/a						
	Kinetic	0.66	oz/a						
		0.25	% v/v						
10	Roundup Weathermax Command	22	oz/a	0.0 b	91.7 a	95.0 a	95.0 a	0.90 g	15 g
	Regiment	1.33	pt/a						
	Permit	0.5	oz/a						
	Kinetic	1.0	oz/a						
		0.25	% v/v						

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Pest Type	CYPES	CYPES	CYPES	CYPES	ORYSA	ORYSA		
Pest Code	Yellow nuts>	Yellow nuts>	Yellow nuts>	Yellow nuts>	BRIC	BRIC		
Pest Name					Common rice	Common rice		
Crop Code					GRAIN C	GRAIN C		
BBCH Scale								
Crop Name								
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	YIELD	YIELD		
Rating Date	6/10/06	6/30/06	7/7/06	7/21/06	9/13/06	9/13/06		
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	lb/plot	BU		
Rating Unit	%	%	%	%	111 82	111 82		
Days After First/Last Applic.	16 16	36 7	43 14	57 28				
Trt-Eval Interval	16 DA-A	7 DA-B	14 DA-B	28 DA-B				
Plant-Eval Interval	17 DP-1	37 DP-1	44 DP-1	58 DP-1	112 DP-1	112 DP-1		
ARM Action Codes						TY1		
Number of Decimals						0		
Trt Treatment								
No. Name	Rate	Unit	20	21	22	23	24	25
11 Roundup Weathermax	22 oz/a		0.0 b	83.3 b	95.0 a	95.0 a	4.40 d	71 d
Command	1.33 pt/a							
Regiment	0.5 oz/a							
Permit	1.33 oz/a							
Kinetic	0.25 % v/v							
12 Roundup Weathermax	22 oz/a		0.0 b	91.7 a	95.0 a	95.0 a	3.33 e	54 e
Command	1.33 pt/a							
Regiment	0.5 oz/a							
Permit	0.5 oz/a							
Kinetic	0.25 % v/v							
13 Roundup Weathermax	22 oz/a		0.0 b	91.7 a	95.0 a	95.0 a	1.80 f	29 f
Command	1.33 pt/a							
Regiment	0.5 oz/a							
Permit	0.5 oz/a							
Kinetic	0.25 % v/v							
14 Roundup Weathermax	22 oz/a		0.0 b	0.0 c	0.0 b	0.0 b	0.00 h	0 h
LSD (P=.05)			0.00	3.77	0.00	0.00	0.544	8.8
Standard Deviation			0.00	2.25	0.00	0.00	0.324	5.2
CV			0.0	2.66	0.0	0.0	8.19	8.19
Bartlett's X2			0.0	2.935	0.0	0.0	15.398	15.398
P(Bartlett's X2)			.	0.817	.	.	0.22	0.22
Replicate F			0.000	6.592	0.000	0.000	2.017	2.016
Replicate Prob(F)			1.0000	0.0048	1.0000	1.0000	0.1533	0.1535
Treatment F			0.000	372.677	0.000	0.000	168.920	168.904
Treatment Prob(F)			1.0000	0.0001	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.

ARM Action Codes
 TY1 = 16.13333*[24]