

# LSU Northeast Research Station

## Effect of hybrid blends on early injury from Newpath.

Trial ID: SJ07R031      Protocol ID: SJ07R031  
 Location:                      Study Director:  
                                     Investigator: Bill Williams

### General Trial Information

Investigator: Bill Williams

### Crop Description

Crop 1: ORYSA    Oryza sativa                      Common rice  
 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

### Pest Description

Pest 1 Type: W    Code: ECHCG    Echinochloa crus-galli  
                             Common Name: Common barnyardgrass  
 Pest 2 Type: W    Code: SEBEX    Sesbania exaltata  
                             Common Name: Coffeebean  
 Pest 3 Type: W    Code: COMDI    Commelina diffusa  
                             Common Name: Baby dayflower  
 Pest 4 Type: W    Code: PORSS    Portulaca sp.  
                             Common Name: Purslane  
 Pest 5 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: Factorial

### Soil Description

Description Name: Sharkey Clay  
 % Sand: 24      % OM: 2.01      Texture: Clay  
 % Silt: 34      pH: 7.96      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**

	<b>A</b>	<b>B</b>
<b>Application Date:</b>	1/Jun/07	11/Jun/07
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	1-2 LF	10 DAA
<b>Application Placement:</b>	BROFOL	BROFOL
<b>Air Temperature, Unit:</b>	85 F	96 F
<b>% Relative Humidity:</b>	41	48
<b>Wind Velocity, Unit:</b>	7 MPH	3 MPH
<b>Wind Direction:</b>	E	N
<b>Soil Temperature, Unit:</b>	84 F	92 F
<b>% Cloud Cover:</b>	0	

**Crop Stage At Each Application**

	<b>A</b>	<b>B</b>
<b>Crop 1 Code, BBCH Scale:</b>	ORYSA BRIC	ORYSA BRIC
<b>Stage Scale Used:</b>	1-2 LF	5 LF
<b>Stage Majority, Percent:</b>	3"	6"
<b>Stage Maximum, Percent:</b>	4"	7"

**Pest Stage At Each Application**

	<b>A</b>	<b>B</b>
<b>Pest 1 Code, Disc., Scale:</b>	ECHCG	WECHCG W
<b>Stage Majority, Percent:</b>	2-3 LF	2-3 LF
<b>Stage Minimum, Percent:</b>	.5"	1"
<b>Stage Maximum, Percent:</b>	1"	
<b>Pest 2 Code, Disc., Scale:</b>	SEBEX	WSEBEX W
<b>Stage Majority, Percent:</b>	1 LF	
<b>Stage Minimum, Percent:</b>	1"	
<b>Stage Maximum, Percent:</b>	1"	
<b>Pest 3 Code, Disc., Scale:</b>	COMDI	WCOMDI W
<b>Stage Majority, Percent:</b>	5-6 LF	

Stage Minimum, Percent: 1"  
 Stage Maximum, Percent: 2"  
 Pest 4 Code, Disc., Scale: PORSS WPORSS W  
 Stage Majority, Percent: 1-2 LF  
 Stage Minimum, Percent: .5"  
 Stage Maximum, Percent: .5"  
 Pest 5 Code, Disc., Scale: CYPES WCYPES W  
 Stage Majority, Percent: 6-8 LF  
 Stage Minimum, Percent: 6"  
 Stage Maximum, Percent: 8"

**Application Equipment**

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

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## Effect of hybrid blends on early injury from Newpath.

Trial ID: SJ07R031

Protocol ID: SJ07R031

Location:

Study Director:

Investigator: Bill Williams

Pest Type	ORYSA								
Pest Code	ORYSA								
Crop Code	ORYSA	ORYSA	ORYSA	ORYSA	ORYSA	ORYSA			
Part Rated	PLTOT	CPLTOT	CPLTOT	CPLTOT	CPLTOT	CPLTOT			
Rating Date	8/Jun/07	12/Jun/07	22/Jun/07	25/Jun/07	6/Jul/07	3/Aug/07			
Rating Data Type	Vigor	Vigor	Vigor	Vigor	Vigor	Vigor			
Rating Unit	% Reduct	% Reduct	% Reduct	% Reduct	% Reduct	% Reduct			
Trt-Eval Interval	7 DA-A	11 DA-A	21 DA-A	24 DA-A	35 DA-A	63 DA-A			
Trt Treatment	Rate	Growth							
No. Name	Rate Unit	Stage	1	2	3	4	5	6	
1 Ent 1			8	a2	a5	a0	a3	a3	a
Newpath	6 OZ/A	1-2 lf							
Agridex	1 % V/V	1-2 lf							
Newpath	6 OZ/A	10 DAA							
Agridex	1 % V/V	10 DAA							
2 Ent 1			13	a3	a3	a0	a2	a0	a
Newpath	12 OZ/A	1-2 lf							
Agridex	1 % V/V	1-2 lf							
Newpath	6 OZ/A	10 DAA							
Agridex	1 % V/V	10 DAA							
3 Ent 1			13	a3	a3	a0	a2	a2	a
Newpath	24 OZ/A	1-2 lf							
Agridex	1 % V/V	1-2 lf							
Newpath	6 OZ/A	10 DAA							
Agridex	1 % V/V	10 DAA							
4 Ent 2			2	a2	a0	a0	a0	a0	a
Newpath	6 OZ/A	1-2 lf							
Agridex	1 % V/V	1-2 lf							
Newpath	6 OZ/A	10 DAA							
Agridex	1 % V/V	10 DAA							
5 Ent 2			3	a0	a2	a0	a0	a0	a
Newpath	12 OZ/A	1-2 lf							
Agridex	1 % V/V	1-2 lf							
Newpath	6 OZ/A	10 DAA							
Agridex	1 % V/V	10 DAA							
6 Ent 2			7	a2	a2	a0	a0	a2	a
Newpath	24 OZ/A	1-2 lf							
Agridex	1 % V/V	1-2 lf							
Newpath	6 OZ/A	10 DAA							
Agridex	1 % V/V	10 DAA							

7	Ent 3		3	a0	a0	a0	a2	a2	a
	Newpath	6							
	Agridex	1							
	Newpath	6							
	Agridex	1							
8	Ent 3		3	a0	a0	a0	a0	a0	a
	Newpath	12							
	Agridex	1							
	Newpath	6							
	Agridex	1							
9	Ent 3		0	a2	a13	a7	a7	a2	a
	Newpath	24							
	Agridex	1							
	Newpath	6							
	Agridex	1							
10	Ent 4		3	a2	a2	a0	a3	a2	a
	Newpath	6							
	Agridex	1							
	Newpath	6							
	Agridex	1							
11	Ent 4		0	a0	a0	a0	a2	a0	a
	Newpath	12							
	Agridex	1							
	Newpath	6							
	Agridex	1							
12	Ent 4		0	a2	a18	a0	a0	a0	a
	Newpath	24							
	Agridex	1							
	Newpath	6							
	Agridex	1							
13	Ent 5		0	a0	a0	a0	a0	a0	a
	Newpath	6							
	Agridex	1							
	Newpath	6							
	Agridex	1							
14	Ent 5		2	a0	a0	a2	a2	a0	a
	Newpath	12							
	Agridex	1							
	Newpath	6							
	Agridex	1							
15	Ent 5		5	a2	a20	a2	a0	a0	a
	Newpath	24							
	Agridex	1							
	Newpath	6							
	Agridex	1							
LSD (P=.10)			6.9	2.8	17.3	4.2	5.0	3.1	
Standard Deviation			4.9	2.0	12.4	3.0	3.6	2.2	
CV			116.91	166.21	272.94	457.09	251.29	282.89	
Grand Mean			4.22	1.22	4.56	0.67	1.44	0.78	
Bartlett's X2			7.521	3.322	25.769	5.056	8.75	1.966	
P(Bartlett's X2)			0.676	0.913	0.001*	0.08	0.271	0.854	

Replicate F	9.941	16.288	0.931	2.154	4.343	1.492
Replicate Prob(F)	0.0005	0.0001	0.4061	0.1349	0.0228	0.2423
Treatment F	2.436	1.000	0.912	1.000	0.801	0.705
Treatment Prob(F)	0.0218	0.4793	0.5569	0.4793	0.6609	0.7513

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Pest Type								
Pest Code								
Crop Code	ORYSA	ORYSA	ORYSA	ORYSA	ORYSA	ORYSA		
Part Rated	PLTOT	CPLTOT	CPLTOT	CPLTOT	CPLTOT	CPLTOT C		
Rating Date	8/Jun/07	12/Jun/07	22/Jun/07	25/Jun/07	6/Jul/07	3/Aug/07		
Rating Data Type	Vigor	Vigor	Vigor	Vigor	Vigor	Vigor		
Rating Unit	% Reduct	% Reduct	% Reduct	% Reduct	% Reduct	% Reduct		
Trt-Eval Interval	7 DA-A	11 DA-A	21 DA-A	24 DA-A	35 DA-A	63 DA-A		
Trt Treatment	Rate	Growth						
No.Name	RateUnit	Stage	1	2	3	4	5	6

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									
Crop Code		ORYSA	ORYSA	ORYSA	ORYSA	ORYSA	ORYSA	ORYSA	
Part Rated		PLTOT	CPLTOT	CPLTOT	CGRAIN	CGRAIN	CGRAIN	C	
Rating Date		25/Jun/07	6/Jul/07	3/Aug/07	18/Sep/07	18/Sep/07	18/Sep/07		
Rating Data Type		STAND	STAND	STAND	YIELD	Moisture	YIELD		
Rating Unit		% Reduct	% Reduct	% Reduct	lb/plot	%	BU		
Trt-Eval Interval		24 DA-A	35 DA-A	63 DA-A					

Trt No.	Treatment Name	Rate	Growth Stage	7	8	9	10	11	12
1	Ent 1			5	a7	a3	a10	ab 10	a166 ab
	Newpath 6	OZ/A	1-2 lf						
	Agridex 1	% V/V	1-2 lf						
	Newpath 6	OZ/A	10 DAA						
	Agridex 1	% V/V	10 DAA						
2	Ent 1			0	a3	a3	a8	c-f 11	a138 c-f
	Newpath 12	OZ/A	1-2 lf						
	Agridex 1	% V/V	1-2 lf						
	Newpath 6	OZ/A	10 DAA						
	Agridex 1	% V/V	10 DAA						
3	Ent 1			0	a7	a3	a7	def 10	a120 def
	Newpath 24	OZ/A	1-2 lf						
	Agridex 1	% V/V	1-2 lf						
	Newpath 6	OZ/A	10 DAA						
	Agridex 1	% V/V	10 DAA						
4	Ent 2			0	a3	a3	a7	ef 11	a114 ef
	Newpath 6	OZ/A	1-2 lf						
	Agridex 1	% V/V	1-2 lf						
	Newpath 6	OZ/A	10 DAA						
	Agridex 1	% V/V	10 DAA						
5	Ent 2			0	a0	a0	a7	f 11	a113 f
	Newpath 12	OZ/A	1-2 lf						
	Agridex 1	% V/V	1-2 lf						
	Newpath 6	OZ/A	10 DAA						
	Agridex 1	% V/V	10 DAA						
6	Ent 2			0	a2	a1	a8	def 11	a124 def
	Newpath 24	OZ/A	1-2 lf						
	Agridex 1	% V/V	1-2 lf						
	Newpath 6	OZ/A	10 DAA						
	Agridex 1	% V/V	10 DAA						
7	Ent 3			0	a2	a0	a7	def 11	a121 def
	Newpath 6	OZ/A	1-2 lf						
	Agridex 1	% V/V	1-2 lf						
	Newpath 6	OZ/A	10 DAA						
	Agridex 1	% V/V	10 DAA						
8	Ent 3			0	a0	a0	a7	def 11	a121 def
	Newpath 12	OZ/A	1-2 lf						

	Agridex	1	% V/V 1-2 lf							
	Newpath	6	OZ/A 10 DAA							
	Agridex	1	% V/V 10 DAA							
9	Ent 3			0	a0	a0	a8	c-f 11	a128	c-f
	Newpath	24	OZ/A 1-2 lf							
	Agridex	1	% V/V 1-2 lf							
	Newpath	6	OZ/A 10 DAA							
	Agridex	1	% V/V 10 DAA							
10	Ent 4			0	a0	a0	a9	b-e 11	a145	b-e
	Newpath	6	OZ/A 1-2 lf							
	Agridex	1	% V/V 1-2 lf							
	Newpath	6	OZ/A 10 DAA							
	Agridex	1	% V/V 10 DAA							
11	Ent 4			0	a7	a7	a7	def 11	a120	def
	Newpath	12	OZ/A 1-2 lf							
	Agridex	1	% V/V 1-2 lf							
	Newpath	6	OZ/A 10 DAA							
	Agridex	1	% V/V 10 DAA							
12	Ent 4			7	a5	a0	a8	c-f 11	a135	c-f
	Newpath	24	OZ/A 1-2 lf							
	Agridex	1	% V/V 1-2 lf							
	Newpath	6	OZ/A 10 DAA							
	Agridex	1	% V/V 10 DAA							
13	Ent 5			0	a0	a0	a9	abc 11	a154	abc
	Newpath	6	OZ/A 1-2 lf							
	Agridex	1	% V/V 1-2 lf							
	Newpath	6	OZ/A 10 DAA							
	Agridex	1	% V/V 10 DAA							
14	Ent 5			0	a0	a1	a9	bcd 11	a146	bcd
	Newpath	12	OZ/A 1-2 lf							
	Agridex	1	% V/V 1-2 lf							
	Newpath	6	OZ/A 10 DAA							
	Agridex	1	% V/V 10 DAA							
15	Ent 5			0	a0	a0	a11	a 11	a172	a
	Newpath	24	OZ/A 1-2 lf							
	Agridex	1	% V/V 1-2 lf							
	Newpath	6	OZ/A 10 DAA							
	Agridex	1	% V/V 10 DAA							
LSD (P=.10)				5.0	6.9	5.8	1.0	0.5	16.6	
Standard Deviation				3.6	5.0	4.2	0.7	0.4	12.0	
CV				462.44	213.26	294.92	8.85	3.46	8.9	
Grand Mean				0.78	2.33	1.42	8.22	10.86	134.4	
Bartlett's X2				0.161	6.798	11.254	20.423	21.723	21.073	
P(Bartlett's X2)				0.689	0.45	0.081	0.117	0.084	0.10	
Replicate F				2.104	2.490	1.309	1.495	0.566	1.398	
Replicate Prob(F)				0.1408	0.1011	0.2862	0.2416	0.5743	0.2639	
Treatment F				1.000	0.904	0.724	7.138	1.738	7.174	
Treatment Prob(F)				0.4793	0.5646	0.7337	0.0001	0.1036	0.0001	

# LSU Northeast Research Station

Pest Type						
Pest Code						
Crop Code	ORYSA	ORYSA	ORYSA	ORYSA	ORYSA	ORYSA
Part Rated	PLTOT	CPLTOT	CPLTOT	CGRAIN	CGRAIN	CGRAIN C
Rating Date	25/Jun/07	6/Jul/07	3/Aug/07	18/Sep/07	18/Sep/07	18/Sep/07
Rating Data Type	STAND	STAND	STAND	YIELD	Moisture	YIELD
Rating Unit	% Reduct	% Reduct	% Reduct	lb/plot	%	BU
Trt-Eval Interval	24 DA-A	35 DA-A	63 DA-A			

Trt Treatment	Rate	Growth						
No. Name	Rate Unit	Stage	7	8	9	10	11	12

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.

Column 12: TY1 = 16.13333\*[10]\*(100-[11])/88