

# LSU Northeast Research Station

## EVALUATION OF ROUNDUP READY FLEX COTTON TOLERANCE TO VARIOUS GLYPHOSATE FORMULATIONS

Trial ID: \_\_\_\_\_ Study Dir.: \_\_\_\_\_  
 Location: \_\_\_\_\_ Investigator: Donnie Miller

### SITE AND DESIGN

Plot Width, Unit: 6.67 FT Plot Length, Unit: 12 FT Reps: 4  
 Site Type: \_\_\_\_\_  
 Tillage Type: \_\_\_\_\_ Study Design: FACTORIAL

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

### APPLICATION DESCRIPTION

	A
Application Date:	4/Aug/2005
Time of Day:	1:00 PM
Application Method:	SPRAY
Application Timing:	LAPOCR
Applic. Placement:	BROFOL
Air Temp., Unit:	90 F
% Relative Humidity:	59
Wind Velocity, Unit:	3.3 MPH
Dew Presence (Y/N):	
Water Hardness:	
Soil Temp., Unit:	96 F
Soil Moisture:	DRY
% Cloud Cover:	30

### WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	n/a
Stage Scale:	
Density, Unit:	

### APPLICATION EQUIPMENT

	A
Appl. Equipment:	TRACTOR
Operating Pressure:	40 PSI
Nozzle Type:	AI
Nozzle Size:	11002
Nozzle Spacing, Unit:	20 IN
Nozzles/Row:	2
Band Width, Unit:	
Boom Length, Unit:	
Boom Height, Unit:	
Ground Speed, Unit:	3.6 MPH
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	WATER
Spray Volume, Unit:	15.6 GPA
Spray pH:	
Propellant:	
Tank Mix (Y/N):	



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FACTORIAL/POOLED ERROR AOV For GOSHI INJURY % 9/Aug/2005 5 DAT						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	39	999.600000				
R	3	5.400000	1.800000	0.501	0.6851	2
A	4	513.350000	128.337500	35.686	0.0001	2
B	1	115.600000	115.600000	32.144	0.0001	1
AB	4	268.150000	67.037500	18.641	0.0001	3
ERROR	27	97.100000	3.596296			

FACTORIAL/POOLED ERROR AOV For GOSHI INJURY % 9/Aug/2005 14 DAT						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	39	213.600000				
R	3	5.400000	1.800000	1.243	0.3136	1
A	4	96.850000	24.212500	16.720	0.0001	1
B	1	16.900000	16.900000	11.670	0.0020	1
AB	4	55.350000	13.837500	9.555	0.0001	2
ERROR	27	39.100000	1.448148			

FACTORIAL/POOLED ERROR AOV For GOSHI INJURY % 7/Sep/2005 31 DAT						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	39	0.000000				
R	3	0.000000	0.000000	0.000	0.0000	0
A	4	0.000000	0.000000	0.000	0.0000	0
B	1	0.000000	0.000000	0.000	0.0000	0
AB	4	0.000000	0.000000	0.000	0.0000	0
ERROR	27	0.000000	0.000000			

FACTORIAL/POOLED ERROR AOV For GOSHI 1ST YIELD LBS 21/Oct/2005 78 DA-A						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	39	19.370440				
R	3	0.632140	0.210713	0.341	0.7961	1
A	4	1.061466	0.265366	0.429	0.7864	1
B	1	0.003240	0.003240	0.005	0.9428	1
AB	4	0.973536	0.243384	0.393	0.8115	1
ERROR	27	16.700059	0.618521			

FACTORIAL/POOLED ERROR AOV For GOSHI 2ND YIELD LBS 3/Nov/2005 91 DA-A						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	39	3.017578				
R	3	0.293108	0.097703	1.285	0.2995	0
A	4	0.350390	0.087598	1.152	0.3536	0
B	1	0.109203	0.109203	1.436	0.2411	0
AB	4	0.212310	0.053078	0.698	0.5999	0
ERROR	27	2.052568	0.076021			

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Crop Code			GOSHI	GOSHI	GOSHI
Rating Data Type			TOTAL YIELD	YIELD	1ST HARVEST
Rating Unit			LBS	LB/A	%
Rating Date			3/Nov/2005	3/Nov/2005	3/Nov/2005
Trt-Eval Interval			91 DA-A	91 DA-A	91 DA-A
ARM Action Codes			T2	TY3	T4
# Subsamples, Dec.				1	
Trt Treatment	Rate	Unit			
No. Name	Rate	Unit	9	10	11
TABLE OF R MEANS					
Replicate 1					
Replicate 2					
Replicate 3					
Replicate 4					
TABLE OF A MEANS					
1 MON 3539	1.125	lb ae/a			
2 ROUNDUP WEATHERMAX	1.125	lb ae/a			
3 TOUCHDOWN TOTAL	1.125	lb ae/a			
4 GLYPHOS XTRA	1.125	lb ae/a			
5 GLYPHOS	1.125	lb ae/a			
5 NIS	0.25	% v/v			
TABLE OF B MEANS					
1 1.125 LB AE/A (1X)					
2 2.25 LB AE/A (2X)					
TABLE OF AB MEANS					
1 MON 3539	1.125	lb ae/a			
1 1.125 LB AE/A (1X)					
2 ROUNDUP WEATHERMAX	1.125	lb ae/a			
1 1.125 LB AE/A (1X)					
3 TOUCHDOWN TOTAL	1.125	lb ae/a			
1 1.125 LB AE/A (1X)					
4 GLYPHOS XTRA	1.125	lb ae/a			
1 1.125 LB AE/A (1X)					
5 GLYPHOS	1.125	lb ae/a			
5 NIS	0.25	% v/v			
1 1.125 LB AE/A (1X)					
1 MON 3539	1.125	lb ae/a			
2 2.25 LB AE/A (2X)					
2 ROUNDUP WEATHERMAX	1.125	lb ae/a			
2 2.25 LB AE/A (2X)					
3 TOUCHDOWN TOTAL	1.125	lb ae/a			
2 2.25 LB AE/A (2X)					
4 GLYPHOS XTRA	1.125	lb ae/a			
2 2.25 LB AE/A (2X)					
5 GLYPHOS	1.125	lb ae/a			
5 NIS	0.25	% v/v			
2 2.25 LB AE/A (2X)					

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FACTORIAL/POOLED ERROR AOV For GOSHI TOTAL YIELD LBS 3/Nov/2005 91 DA-A T2

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	39	22.393639				
R	3	1.254607	0.418202	0.583	0.6312	1
A	4	0.475150	0.118788	0.166	0.9540	1
B	1	0.150061	0.150061	0.209	0.6510	1
AB	4	1.150951	0.287738	0.401	0.8060	1
ERROR	27	19.362869	0.717143			

FACTORIAL/POOLED ERROR AOV For GOSHI YIELD LB/A 3/Nov/2005 91 DA-A TY3 1

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	39	6632637.016422				
R	3	371594.047883	123864.682628	0.583	0.6312	422.9
A	4	140731.814819	35182.953705	0.166	0.9540	472.9
B	1	44446.440995	44446.440995	0.209	0.6510	299.1
AB	4	340892.232375	85223.058094	0.401	0.8060	668.7
ERROR	27	5734972.480350	212406.388161			

FACTORIAL/POOLED ERROR AOV For GOSHI 1ST HARVEST % 3/Nov/2005 91 DA-A T4

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	39	917.500930				
R	3	83.879356	27.959785	1.289	0.2983	4
A	4	143.440910	35.860228	1.653	0.1900	5
B	1	36.691982	36.691982	1.691	0.2044	3
AB	4	67.785908	16.946477	0.781	0.5473	7
ERROR	27	585.702773	21.692695			

Column 9: T2 = ([7]+[8])  
 Column 10: TY3 = 544.2279\*[9]  
 Column 11: T4 = 100\*([7]/[9])