

LSU Northeast Research Station

ROUNDUP READY SOYBEAN TOLERANCE TO APPLICATION OF GLYPHOSATE AT REPRODUCTIVE GROWTH STAGE

Trial ID: _____ Study Dir.: _____
 Location: _____ Investigator: Donnie Miller

SITE AND DESIGN

Plot Width, Unit: 6.67 FT Plot Length, Unit: 40 FT Reps: 4

Site Type: _____

Tillage Type: _____ Study Design: RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

APPLICATION DESCRIPTION

	A
Application Date:	6/Aug/2004
Time of Day:	10:50 AM
Application Method:	SPRAY
Application Timing:	LAPOCR
Applic. Placement:	BROFOL
Air Temp., Unit:	81 F
% Relative Humidity:	59
Wind Velocity, Unit:	
Dew Presence (Y/N):	
Water Hardness:	
Soil Temp., Unit:	84 F
Soil Moisture:	
% Cloud Cover:	20

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	N/A
Stage Scale:	
Density, Unit:	

APPLICATION EQUIPMENT

	A
Appl. Equipment:	CO2 BCPCCK
Operating Pressure:	38 PSI
Nozzle Type:	DG
Nozzle Size:	11002
Nozzle Spacing, Unit:	20 IN
Nozzles/Row:	2
Band Width, Unit:	
Boom Length, Unit:	
Boom Height, Unit:	
Ground Speed, Unit:	3.2 MPH
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	WATER
Spray Volume, Unit:	15 GPA
Spray pH:	
Propellant:	
Tank Mix (Y/N):	

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Trial ID:

Study Dir.:

Location:

Investigator: Donnie Miller

Crop Code	GLXMA YIELD	GLXMA MOISTURE	GLXMA YIELD		GLXMA # PLANTS	GLXMA AVG HT	
Rating Data Type	LBS	%	BU/A		/SAMPLE	CM/SAMPL	
Rating Unit	21/Oct/2005	21/Oct/2005	21/Oct/2005		9/Jan/2006	9/Jan/2006	
Rating Date					521 DA-A	521 DA-A	
Trt-Eval Interval							
ARM Action Codes				TY1			
# Subsamples, Dec.				1	1		
Trt Treatment	Rate						
No. Name	Rate Unit	1	2	3	4	5	6
1 ROUNDUP WEATHERMAX	0.0 lb ai/a	20 a	13 a	53.5 a		5.0 a	64 a
2 ROUNDUP WEATHERMAX	0.5 lb ai/a	21 a	13 a	56.8 a		4.8 a	57 a
3 ROUNDUP WEATHERMAX	1.0 lb ai/a	20 a	13 a	55.5 a		5.0 a	63 a
4 ROUNDUP WEATHERMAX	1.5 lb ai/a	21 a	13 a	56.9 a		4.8 a	68 a
5 ROUNDUP WEATHERMAX	2.0 lb ai/a	20 a	13 a	55.4 a		4.8 a	53 a
6 ROUNDUP WEATHERMAX	3.0 lb ai/a	20 a	13 a	53.3 a		4.8 a	55 a
LSD (P=.05)		1.3	0.5	3.55	.	0.59	11.1
Standard Deviation		0.8	0.3	2.35	.	0.39	7.4
CV		4.17	2.53	4.26	.	8.16	12.31
Grand Mean		20.3	13.04	55.22	.	4.83	59.94
Bartlett's X2		3.625	1.798	3.596	.	0.0	5.872
P(Bartlett's X2)		0.605	0.876	0.609	.	0.001*	0.319
Replicate F		5.498	0.563	5.327		1.429	1.169
Replicate Prob(F)		0.0095	0.6474	0.0106		0.2737	0.3544
Treatment F		1.952	0.318	1.751		0.429	2.544
Treatment Prob(F)		0.1449	0.8942	0.1838		0.8217	0.0737

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.

Column 3: TY1 = 2.721139*[C1]*(100-[C2])/87

LSU Northeast Research Station

Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type	AVG NODE	AVG BRANCH	AVG B.P.	AVG M.S.P.	BP SEED WT
Rating Unit	/SAMPLE	/SAMPLE	/SAMPLE	/SAMPLE	GRAMS/50
Rating Date	9/Jan/2006	9/Jan/2006	9/Jan/2006	9/Jan/2006	9/Jan/2006
Trt-Eval Interval	521 DA-A	521 DA-A	521 DA-A	521 DA-A	521 DA-A
ARM Action Codes					
# Subsamples, Dec.					
Trt Treatment	Rate				
No. Name	Rate Unit	7	8	9	10
1 ROUNDUP WEATHERMAX	0.0 lb ai/a	12 a	12 a	39 a	29 a
2 ROUNDUP WEATHERMAX	0.5 lb ai/a	11 a	9 a	28 a	25 a
3 ROUNDUP WEATHERMAX	1.0 lb ai/a	11 a	11 a	32 a	27 a
4 ROUNDUP WEATHERMAX	1.5 lb ai/a	12 a	11 a	40 a	25 a
5 ROUNDUP WEATHERMAX	2.0 lb ai/a	11 a	9 a	31 a	25 a
6 ROUNDUP WEATHERMAX	3.0 lb ai/a	11 a	10 a	43 a	27 a
LSD (P=.05)		1.4	3.5	22.1	8.7
Standard Deviation		1.0	2.3	14.7	5.8
CV		8.37	22.91	41.19	21.76
Grand Mean		11.5	10.25	35.63	26.43
Bartlett's X2		7.809	10.486	4.456	10.505
P(Bartlett's X2)		0.167	0.063	0.486	0.062
Replicate F		0.314	0.064	0.064	0.639
Replicate Prob(F)		0.8147	0.9781	0.9780	0.6016
Treatment F		0.945	1.002	0.648	0.331
Treatment Prob(F)		0.4804	0.4499	0.6675	0.8862

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Crop Code			GLXMA
Rating Data Type			MSP SEED WT
Rating Unit			GRAMS/50
Rating Date			9/Jan/2006
Trt-Eval Interval			521 DA-A
ARM Action Codes			
# Subsamples, Dec.			
Trt No.	Treatment Name	Rate	
		Unit	12
1	ROUNDUP WEATHERMAX	0.0 lb ai/a	8 a
2	ROUNDUP WEATHERMAX	0.5 lb ai/a	8 a
3	ROUNDUP WEATHERMAX	1.0 lb ai/a	8 a
4	ROUNDUP WEATHERMAX	1.5 lb ai/a	8 a
5	ROUNDUP WEATHERMAX	2.0 lb ai/a	8 a
6	ROUNDUP WEATHERMAX	3.0 lb ai/a	8 a
LSD (P=.05)			0.8
Standard Deviation			0.5
CV			6.73
Grand Mean			7.93
Bartlett's X2			3.744
P(Bartlett's X2)			0.587
Replicate F			1.235
Replicate Prob(F)			0.3318
Treatment F			0.459
Treatment Prob(F)			0.8004

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