

LSU Northeast Research Station

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

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	B
Application Date:	6/Aug/2004	20/Aug/2004
Time of Day:	10:50 AM	10:00 AM
Application Method:	SPRAY	SPRAY
Application Timing:	LAPOCR	LAPOCR
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	81 F	79 F
% Relative Humidity:	59	77
Wind Velocity, Unit:		8.8 MPH
Dew Presence (Y/N):		
Water Hardness:		
Soil Temp., Unit:	84 F	84 F
Soil Moisture:		
% Cloud Cover:	20	100

WEED STAGE AT EACH APPLICATION

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

APPLICATION EQUIPMENT

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

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Trial ID:			Study Dir.:					
Location:			Investigator: Donnie Miller					
Crop Code			GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type			YIELD	MOISTURE	YIELD	# PLANTS	AVG HT	AVG NODE
Rating Unit			LBS	%	BU/A	/SAMPLE	CM/SAMPL	/SAMPLE
Rating Date			21/Oct/2005	21/Oct/2005	21/Oct/2005	9/Jan/2006	9/Jan/2006	9/Jan/2006
ARM Action Codes					TY1			
# Subsamples, Dec.					1			
Trt	Treatment	Rate						
No.	Name	Unit	1	2	3	4	5	6
1	ROUNDUP WEATHERMAX	0.0 lb ai/a	22 a	13 a	58.5 a	5 a	63 a	12 a
	ROUNDUP WEATHERMAX	0.0 lb ai/a						
2	ROUNDUP WEATHERMAX	0.5 lb ai/a	21 a	13 a	58.3 a	5 a	61 a	12 a
	ROUNDUP WEATHERMAX	0.5 lb ai/a						
3	ROUNDUP WEATHERMAX	1.0 lb ai/a	20 a	13 a	55.6 a	5 a	67 a	12 a
	ROUNDUP WEATHERMAX	1.0 lb ai/a						
4	ROUNDUP WEATHERMAX	1.5 lb ai/a	21 a	13 a	56.5 a	5 a	60 a	11 a
	ROUNDUP WEATHERMAX	1.5 lb ai/a						
5	ROUNDUP WEATHERMAX	2.0 lb ai/a	20 a	13 a	55.7 a	5 a	65 a	13 a
	ROUNDUP WEATHERMAX	2.0 lb ai/a						
6	ROUNDUP WEATHERMAX	3.0 lb ai/a	20 a	13 a	54.3 a	5 a	63 a	11 a
	ROUNDUP WEATHERMAX	3.0 lb ai/a						
LSD (P=.05)			1.2	0.4	3.44	0.5	10.0	1.7
Standard Deviation			0.8	0.3	2.28	0.3	6.6	1.1
CV			3.89	2.24	4.04	7.09	10.48	9.62
Grand Mean			20.75	12.99	56.49	4.88	63.06	11.85
Bartlett's X2			5.819	3.695	6.16	0.0	2.61	9.272
P(Bartlett's X2)			0.324	0.594	0.291	0.001*	0.76	0.099
Replicate F			2.458	0.450	2.426	1.279	4.423	1.452
Replicate Prob(F)			0.1029	0.7209	0.1060	0.3175	0.0204	0.2674
Treatment F			2.334	0.481	2.089	0.628	0.644	0.849
Treatment Prob(F)			0.0933	0.7849	0.1235	0.6813	0.6704	0.5364

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*[1]*(100-[2])/87

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Crop Code			GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type			AVG BRANCH	AVG B.P.	AVG M.S.P.	BP SEED WT	MSP SEED WT
Rating Unit			/SAMPLE	/SAMPLE	/SAMPLE	GRAMS/50	GRAMS/50
Rating Date			9/Jan/2006	9/Jan/2006	9/Jan/2006	9/Jan/2006	9/Jan/2006
ARM Action Codes							
# Subsamples, Dec.							
Trt No.	Treatment Name	Rate	7	8	9	10	11
1	ROUNDUP WEATHERMAX	0.0 lb ai/a	11 a	41 a	31 a	7 a	8 a
	ROUNDUP WEATHERMAX	0.0 lb ai/a					
2	ROUNDUP WEATHERMAX	0.5 lb ai/a	11 a	37 a	29 a	7 a	7 a
	ROUNDUP WEATHERMAX	0.5 lb ai/a					
3	ROUNDUP WEATHERMAX	1.0 lb ai/a	10 a	37 a	27 a	8 a	8 a
	ROUNDUP WEATHERMAX	1.0 lb ai/a					
4	ROUNDUP WEATHERMAX	1.5 lb ai/a	10 a	32 a	26 a	7 a	8 a
	ROUNDUP WEATHERMAX	1.5 lb ai/a					
5	ROUNDUP WEATHERMAX	2.0 lb ai/a	10 a	38 a	26 a	7 a	7 a
	ROUNDUP WEATHERMAX	2.0 lb ai/a					
6	ROUNDUP WEATHERMAX	3.0 lb ai/a	11 a	42 a	24 a	7 a	7 a
	ROUNDUP WEATHERMAX	3.0 lb ai/a					
LSD (P=.05)			2.6	16.2	9.5	0.9	0.9
Standard Deviation			1.7	10.7	6.3	0.6	0.6
CV			16.14	28.48	23.23	8.03	7.98
Grand Mean			10.71	37.68	27.11	7.35	7.5
Bartlett's X2			1.283	3.624	4.883	3.24	5.337
P(Bartlett's X2)			0.937	0.605	0.43	0.663	0.376
Replicate F			3.745	0.789	3.844	0.225	2.290
Replicate Prob(F)			0.0344	0.5186	0.0318	0.8777	0.1230
Treatment F			0.481	0.394	0.490	0.365	2.440
Treatment Prob(F)			0.7850	0.8455	0.7788	0.8648	0.0865

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.