

LSU Northeast Research Station

AUTHORITY MTZ/AUTHORITY FIRST ROUNDUP READY SOBYEAN

GENERAL TRIAL INFORMATION

Study Director: FMC
Investigator: Donnie Miller
TRIAL LOCATION: ST JOSEPH, LA
Crop 1: GLXMA SOYBEAN
Variety: DP4919RR
Planting Date: 1/May/2008

SITE AND DESIGN

Plot Width, Unit: 6.67 FT
Plot Length, Unit: 25 FT
Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 24 % OM: 1.4
% Silt: 50 pH: 6.1
% Clay: 26 CEC: 12.6
Texture: LOAM

APPLICATION DESCRIPTION

	A	B
Application Date:	2/May/2008	26/May/2008
Time of Day:	10:30 AM	2:10 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PREPRE	POSPOS
Applic. Placement:	BROSOI	BROFOL
Air Temp., Unit:	75 F	89 F
% Relative Humidity:	57	54
Wind Velocity, Unit:	13.1 MPH	8.4 MPH
Dew Presence (Y/N):	N	N
Water Hardness:	N	N
Soil Temp., Unit:	74 F	93 F
Soil Moisture:	DRY	
% Cloud Cover:	100	30

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	GLXMA N/A	GLXMA 3 TRIFOL

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	CO2 BCPCCK	CO2 BCPCCK
Operating Pressure:	34 psi	34 psi
Nozzle Type:	DG	DG
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN
Nozzles/Row:	2	2
Ground Speed, Unit:	3.2 MPH	3.2 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA

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Weed Code	IPOLA	IPOHG	SEBEX	CASOB	ECHCG	BRAPP	AMARE	GLXMA	GLXMA	IPOLA		
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL		
Rating Unit	%	%	%	%	%	%	%	%	%	%		
Rating Date	11/May/2008	11/May/2008	11/May/2008	11/May/2008	11/May/2008	11/May/2008	11/May/2008	11/May/2008	11/May/2008	15/May/2008		
Trt-Eval Interval	3 DAE	3 DAE	3 DAE	3 DAE	3 DAE	3 DAE	3 DAE	3 DAE	3 DAE	7 DAE		
ARM Action Codes												
# Subsamples, Dec.												
Trt	Treatment	Rate	Appl	1	2	3	4	5	6	7	8	9
No.	Name	Rate	Unit	Code								
1	AUTHORITY MTZ	10 oz/a	A		100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	0.00 a	100.00 a
	GLYFOS XTRA	24 oz/a	B									
	AMMONIUM SULFATE	2.5 lb/a	B									
2	AUTHORITY FIRST	3.2 oz/a	A		100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	0.00 a	100.00 a
	GLYFOS XTRA	24 oz/a	B									
	AMMONIUM SULFATE	2.5 lb/a	B									
3	NONTREATED				0.00 b	0.00 b	0.00 b	0.00 b	0.00 b	0.00 b	0.00 a	0.00 b
LSD (P=.05)					0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Standard Deviation					0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CV					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grand Mean					66.67	66.67	66.67	66.67	66.67	66.67	0.0	66.67
Bartlett's X2					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)					.	.	.	.	.	.	.	.
Replicate F					0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F					0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code	IPOHG	SEBEX	CASOB	ECHCG	BRAPP	AMARE	IPOLA	IPOHG				
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA				
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL				
Rating Unit	%	%	%	%	%	%	%	%				
Rating Date	15/May/2008	15/May/2008	15/May/2008	15/May/2008	15/May/2008	15/May/2008	15/May/2008	22/May/2008	22/May/2008			
Trt-Eval Interval	7 DAE	7 DAE	7 DAE	7 DAE	7 DAE	7 DAE	7 DAE	14 DAE	14 DAE			
ARM Action Codes												
# Subsamples, Dec.												
Trt Treatment												
No. Name	Rate	Unit	Appl Code	10	11	12	13	14	15	16	17	18
1 AUTHORITY MTZ	10 oz/a	A		100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	0.00 a	93.75 a	96.25 a
GLYFOS XTRA	24 oz/a	B										
AMMONIUM SULFATE	2.5 lb/a	B										
2 AUTHORITY FIRST	3.2 oz/a	A		100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	0.00 a	98.75 a	96.25 a
GLYFOS XTRA	24 oz/a	B										
AMMONIUM SULFATE	2.5 lb/a	B										
3 NONTREATED				0.00 b	0.00 b	0.00 b	0.00 b	0.00 b	0.00 b	0.00 a	0.00 b	0.00 b
LSD (P=.05)				0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.492	6.915
Standard Deviation				0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.330	3.997
CV				0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.75	6.23
Grand Mean				66.67	66.67	66.67	66.67	66.67	66.67	0.0	64.17	64.17
Bartlett's X2				0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.904	0.0
P(Bartlett's X2)				.	.	.	.	.	.	.	0.088	0.001*
Replicate F				0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.333	0.870
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.3486	0.5069
Treatment F				0.000	0.000	0.000	0.000	0.000	0.000	0.000	660.111	773.348
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0001	0.0001

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Weed Code	SEBEX	CASOB	ECHCG	BRAPP	AMARE							
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	YIELD	MOISTURE	YIELD	YIELD	YIELD
Rating Unit	%	%	%	%	%	%	%	LB	%	%	BU/A	BU/A
Rating Date	22/May/2008	22/May/2008	22/May/2008	22/May/2008	22/May/2008	22/May/2008	22/May/2008	23/Sep/2008	23/Sep/2008	23/Sep/2008	23/Sep/2008	23/Sep/2008
Trt-Eval Interval	14 DAE	14 DAE	14 DAE	14 DAE	14 DAE	14 DAE	14 DAE					
ARM Action Codes												
# Subsamples, Dec.												TY1
Trt Treatment												1
No. Name	Rate	Unit	Appl Code	19	20	21	22	23	24	25	26	27
1 AUTHORITY MTZ	10 oz/a	A		98.75 a	75.00 a	93.75 a	100.00 a	100.00 a	0.00 a	6.78 a	14.10 a	29.2 a
GLYFOS XTRA	24 oz/a	B										
AMMONIUM SULFATE	2.5 lb/a	B										
2 AUTHORITY FIRST	3.2 oz/a	A		98.75 a	78.75 a	98.75 a	100.00 a	100.00 a	0.00 a	6.58 a	13.35 a	28.5 a
GLYFOS XTRA	24 oz/a	B										
AMMONIUM SULFATE	2.5 lb/a	B										
3 NONTREATED				0.00 b	0.00 b	0.00 b	0.00 b	0.00 b	0.00 a	3.43 b	14.60 a	14.5 b
LSD (P=.05)				2.497	7.492	6.915	0.000	0.000	0.000	1.688	3.960	7.33
Standard Deviation				1.443	4.330	3.997	0.000	0.000	0.000	0.976	2.289	4.24
CV				2.19	8.45	6.23	0.0	0.0	0.0	17.45	16.33	17.62
Grand Mean				65.83	51.25	64.17	66.67	66.67	0.0	5.59	14.02	24.05
Bartlett's X2				0.0	0.072	2.139	0.0	0.0	0.0	0.632	11.114	0.925
P(Bartlett's X2)				1.00	0.789	0.144	.	.	.	0.729	0.004*	0.63
Replicate F				4.000	0.111	0.870	0.000	0.000	0.000	9.119	0.541	8.706
Replicate Prob(F)				0.0701	0.9504	0.5069	1.0000	1.0000	1.0000	0.0118	0.6719	0.0132
Treatment F				6241.001	421.000	774.913	0.000	0.000	0.000	14.832	0.302	15.413
Treatment Prob(F)				0.0001	0.0001	0.0001	1.0000	1.0000	1.0000	0.0048	0.7498	0.0043

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 Column 27: TY1 = 4.353823*[25]*(100-[26])/87