

LSU Northeast Research Station
AUTHORITY MTZ/COMMAND CONVENTIONAL SOYBEAN

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:	10:40 AM	2:00 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PREPRE	POSPOS
Applic. Placement:	BROSOI	BROFOL
Air Temp., Unit:	80 F	89 F
% Relative Humidity:	66	54
Wind Velocity, Unit:	13.8 MPH	8.4 MPH
Dew Presence (Y/N):	N	N
Water Hardness:	N	N
Soil Temp., Unit:	78 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 BCPCK	CO2 BCPCK
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	IPOLA	IPOH						
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA						
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	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	15/May/2008	15/May/2008					
Trt-Eval Interval	3 DAE	3 DAE	3 DAE	3 DAE	3 DAE	3 DAE	3 DAE	3 DAE	7 DAE	7 DAE					
ARM Action Codes															
# Subsamples, Dec.															
Trt	Treatment	Rate	Unit	Appl	Code	1	2	3	4	5	6	7	8	9	10
No.	Name	Rate	Unit	Code											
1	COMMAND	10.7 oz/a	A			100.00 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	100.00 a
	AUTHORITY MTZ	8 oz/a	A												
	FIRSTRATE	0.3 oz/a	B												
2	COMMAND	16 oz/a	A			100.00 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	100.00 a
	AUTHORITY MTZ	12 oz/a	A												
	FIRSTRATE	0.3 oz/a	B												
3	AUTHORITY MTZ	12 oz/a	A			100.00 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	100.00 a
	FIRSTRATE	0.3 oz/a	B												
4	AUTHORITY MTZ	16 oz/a	A			100.00 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	100.00 a
	FIRSTRATE	0.3 oz/a	B												
5	NONTREATED					0.00 b	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	0.000	0.000	0.000
Standard Deviation						0.000	0.000	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	0.0	0.0
Grand Mean						80.0	80.0	80.0	80.0	80.0	80.0	80.0	0.0	80.0	80.0
Bartlett's X2						0.0	0.0	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	0.000	0.000
Replicate Prob(F)						1.0000	1.0000	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	0.000	0.000
Treatment Prob(F)						1.0000	1.0000	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	SEBEX	CASOB	ECHCG	BRAPP	AMARE	IPOLA	IPOHG	SEBEX	CASOB				
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA				
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL				
Rating Unit	%	%	%	%	%	%	%	%	%				
Rating Date	15/May/2008	15/May/2008	15/May/2008	15/May/2008	15/May/2008	15/May/2008	22/May/2008	22/May/2008	22/May/2008	22/May/2008			
Trt-Eval Interval	7 DAE	7 DAE	7 DAE	7 DAE	7 DAE	7 DAE	14 DAE	14 DAE	14 DAE	14 DAE			
ARM Action Codes													
# Subsamples, Dec.													
Trt Treatment													
No. Name	Rate	Unit	Appl Code	11	12	13	14	15	16	17	18	19	20
1 COMMAND	10.7 oz/a	A		100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	0.00 a	87.50 a	92.50 a	92.50 a	82.50 a
AUTHORITY MTZ	8 oz/a	A											
FIRSTRATE	0.3 oz/a	B											
2 COMMAND	16 oz/a	A		100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	0.00 a	90.00 a	96.25 a	93.75 a	86.25 a
AUTHORITY MTZ	12 oz/a	A											
FIRSTRATE	0.3 oz/a	B											
3 AUTHORITY MTZ	12 oz/a	A		100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	0.00 a	93.75 a	98.75 a	98.75 a	80.00 a
FIRSTRATE	0.3 oz/a	B											
4 AUTHORITY MTZ	16 oz/a	A		100.00 a	100.00 a	100.00 a	100.00 a	100.00 a	0.00 a	92.50 a	96.25 a	98.75 a	87.50 a
FIRSTRATE	0.3 oz/a	B											
5 NONTREATED				0.00 b	0.00 b	0.00 b	0.00 b	0.00 b	0.00 a	0.00 b	0.00 b	0.00 b	0.00 b
LSD (P=.05)				0.000	0.000	0.000	0.000	0.000	0.000	6.962	6.251	6.407	7.777
Standard Deviation				0.000	0.000	0.000	0.000	0.000	0.000	4.518	4.057	4.158	5.040
CV				0.0	0.0	0.0	0.0	0.0	0.0	6.21	5.29	5.42	7.777
Grand Mean				80.0	80.0	80.0	80.0	80.0	0.0	72.75	76.75	76.75	67.25
Bartlett's X2				0.0	0.0	0.0	0.0	0.0	0.0	2.28	2.191	5.115	5.440
P(Bartlett's X2)				.	.	.	.	.	.	0.516	0.534	0.164	0.140
Replicate F				0.000	0.000	0.000	0.000	0.000	0.000	6.102	1.696	2.386	2.140
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0092	0.2207	0.1202	0.1400
Treatment F				0.000	0.000	0.000	0.000	0.000	0.000	325.163	448.595	427.699	223.820
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	0.0000

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Weed Code	ECHCG	BRAPP	AMARE				
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY	YIELD	MOISTURE	YIELD
Rating Unit	%	%	%	%	LB	%	BU/A
Rating Date	22/May/2008	22/May/2008	22/May/2008	22/May/2008	23/Sep/2008	23/Sep/2008	23/Sep/2008
Trt-Eval Interval	14 DAE	14 DAE	14 DAE	14 DAE			
ARM Action Codes							TY1
# Subsamples, Dec.							1

Trt Treatment	Rate	Unit	Appl Code	21	22	23	24	25	26	27
1 COMMAND	10.7 oz/a	A		95.00 a	100.00 a	100.00 a	0.00 a	7.30 a	12.60 a	31.9 a
AUTHORITY MTZ	8 oz/a	A								
FIRSTRATE	0.3 oz/a	B								
2 COMMAND	16 oz/a	A		100.00 a	97.50 a	100.00 a	0.00 a	7.85 a	13.68 a	33.9 a
AUTHORITY MTZ	12 oz/a	A								
FIRSTRATE	0.3 oz/a	B								
3 AUTHORITY MTZ	12 oz/a	A		95.00 a	98.75 a	100.00 a	0.00 a	7.18 a	13.15 a	31.2 a
FIRSTRATE	0.3 oz/a	B								
4 AUTHORITY MTZ	16 oz/a	A		96.25 a	100.00 a	100.00 a	0.00 a	8.15 a	13.18 a	35.4 a
FIRSTRATE	0.3 oz/a	B								
5 NONTREATED				0.00 b	0.00 b	0.00 b	0.00 a	6.33 a	13.70 a	27.3 a
LSD (P=.05)				5.884	3.445	0.000	0.000	1.363	1.058	6.03
Standard Deviation				3.819	2.236	0.000	0.000	0.885	0.686	3.91
CV				4.94	2.82	0.0	0.0	12.02	5.18	12.25
Grand Mean				77.25	79.25	80.0	0.0	7.36	13.26	31.95
Bartlett's X2				0.431	1.296	0.0	0.0	3.303	13.154	3.262
P(Bartlett's X2)				0.512	0.255	.	.	0.509	0.011*	0.515
Replicate F				1.000	2.250	0.000	0.000	9.648	1.014	9.105
Replicate Prob(F)				0.4262	0.1349	1.0000	1.0000	0.0016	0.4206	0.0020
Treatment F				512.657	1571.000	0.000	0.000	2.520	1.742	2.461
Treatment Prob(F)				0.0001	0.0001	1.0000	1.0000	0.0963	0.2053	0.1018

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