

LSU Northeast Research Station
2008/CADET/SOYBEANS/TANKMIXES

GENERAL TRIAL INFORMATION

Study Director: FMC
Investigator: Donnie Miller
TRIAL LOCATION: ST JOSEPH, LA
Crop 1: GLXMA SOYBEAN
Variety: DP4919RR

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
Application Date: 26/May/2008
Time of Day: 2:30 PM
Application Method: SPRAY
Application Timing: POSPOS
Applic. Placement: BROFOL
Air Temp., Unit: 89 F
% Relative Humidity: 54
Wind Velocity, Unit: 8.4 MPH
Dew Presence (Y/N): N
Water Hardness: N
Soil Temp., Unit: 93 F
% Cloud Cover: 30

CROP STAGE AT EACH APPLICATION

A
Crop 1 Code, Stage: GLXMA 3 TRIFOL

APPLICATION EQUIPMENT

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

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Weed Code	ECHCG	IPLA	IPOHG	SEBEX	CASOB	SORHA	AMARE	ECHCG	AMARE				
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	29/May/2008	29/May/2008	29/May/2008	29/May/2008	29/May/2008	29/May/2008	29/May/2008	29/May/2008	2/Jun/2008	2/Jun/2008			
Trt-Eval Interval	3 DA-A	3 DA-A	3 DA-A	3 DA-A	3 DA-A	3 DA-A	3 DA-A	3 DA-A	7 DA-A	7 DA-A			
ARM Action Codes													
# Subsamples, Dec.													
Trt Treatment													
No. Name	Rate	Unit	Appl Code	1	2	3	4	5	6	7	8	9	10
1 CADET	0.5 oz/a	A		40.00 a	46.25 a	46.25 a	80.00 a	63.75 a	70.00 a	93.75 a	10.00 c	83.75 a	96.25 ab
GLYFOS XTRA	24 oz/a	A											
NIS	0.25 % v/v	A											
2 CADET	0.7 oz/a	A		37.50 a	47.50 a	47.50 a	81.25 a	66.25 a	70.00 a	98.75 a	16.25 b	83.75 a	98.75 a
GLYFOS XTRA	24 oz/a	A											
NIS	0.25 % v/v	A											
3 CADET	0.9 oz/a	A		40.00 a	51.25 a	51.25 a	87.50 a	63.75 a	71.25 a	97.50 a	40.00 a	78.75 a	92.50 b
GLYFOS XTRA	24 oz/a	A											
NIS	0.25 % v/v	A											
4 NONTREATED				0.00 b	0.00 b	0.00 b	0.00 b	0.00 b	0.00 b	0.00 b	0.00 d	0.00 b	0.00 c
LSD (P=.05)				3.999	6.252	6.252	15.328	10.346	5.059	6.796	1.999	6.287	5.496
Standard Deviation				2.500	3.909	3.909	9.583	6.468	3.025	4.249	1.250	3.931	3.436
CV				8.51	10.78	10.78	15.41	13.35	5.73	5.86	7.55	6.39	4.78
Grand Mean				29.38	36.25	36.25	62.19	48.44	52.81	72.5	16.56	61.56	71.88
Bartlett's X2				0.0	0.251	0.251	0.084	1.815	1.746	6.128	0.0	0.545	1.936
P(Bartlett's X2)				.	0.882	0.882	0.959	0.404	0.418	0.047*	.	0.761	0.38
Replicate F				1.000	2.727	2.727	5.688	2.627	1.992	2.769	1.000	4.685	0.176
Replicate Prob(F)				0.4363	0.1063	0.1063	0.0183	0.1143	0.2039	0.1032	0.4363	0.0309	0.9097
Treatment F				246.333	154.091	154.091	75.329	99.822	541.959	518.539	739.667	437.494	780.177
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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	IPOLA	IPOHG	SEBEX	CASOB	ECHCG	AMARE	IPOLA	IPOHG	SEBEX	CASOB				
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA				
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL				
Rating Unit	%	%	%	%	%	%	%	%	%	%				
Rating Date	2/Jun/2008	2/Jun/2008	2/Jun/2008	2/Jun/2008	2/Jun/2008	9/Jun/2008	9/Jun/2008	9/Jun/2008	9/Jun/2008	9/Jun/2008	9/Jun/2008			
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A			
ARM Action Codes														
# Subsamples, Dec.														
Trt Treatment														
No. Name	Rate	Unit	Appl Code	11	12	13	14	15	16	17	18	19	20	21
1 CADET	0.5 oz/a	A		81.25 b	81.25 b	76.25 a	86.25 a	10.00 c	93.75 a	98.75 a	85.00 a	100.00 a	85.00 a	93.75 a
GLYFOS XTRA	24 oz/a	A												
NIS	0.25 % v/v	A												
2 CADET	0.7 oz/a	A		85.00 a	85.00 a	81.25 a	92.50 a	15.00 b	90.00 a	100.00 a	82.50 a	100.00 a	82.50 a	96.25 a
GLYFOS XTRA	24 oz/a	A												
NIS	0.25 % v/v	A												
3 CADET	0.9 oz/a	A		80.00 b	80.00 b	85.00 a	90.00 a	26.25 a	90.00 a	100.00 a	82.50 a	100.00 a	86.25 a	97.50 a
GLYFOS XTRA	24 oz/a	A												
NIS	0.25 % v/v	A												
4 NONTREATED				0.00 c	0.00 c	0.00 b	0.00 b	0.00 d	0.00 b	0.00 b	0.00 b	0.00 b	0.00 b	0.00 b
LSD (P=.05)				1.999	1.999	9.519	6.287	1.999	4.267	1.999	6.796	0.000	10.849	7.657
Standard Deviation				1.250	1.250	5.951	3.931	1.250	2.668	1.250	4.249	0.000	6.783	4.787
CV				2.03	2.03	9.82	5.85	9.76	3.9	1.67	6.8	0.0	10.69	6.66
Grand Mean				61.56	61.56	60.63	67.19	12.81	68.44	74.69	62.5	75.0	63.44	71.88
Bartlett's X2				0.0	0.0	0.788	0.254	0.0	0.667	0.0	2.015	0.0	0.781	2.273
P(Bartlett's X2)				.	.	0.674	0.615	.	0.414	.	0.365	.	0.677	0.321
Replicate F				1.000	1.000	6.294	1.180	1.000	0.220	1.000	1.615	0.000	2.026	1.545
Replicate Prob(F)				0.4363	0.4363	0.0137	0.3707	0.4363	0.8804	0.4363	0.2534	1.0000	0.1808	0.2690
Treatment F				4323.667	4323.667	185.941	521.090	305.000	1171.537	6347.667	384.923	0.000	155.717	401.182
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001

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Weed Code	ECHCG	AMARE	IPOLA	IPOHG	SEBEX	CASOB	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	YIELD	MOISTURE			
Rating Unit	%	%	%	%	%	%	%	%	LB	%			
Rating Date	9/Jun/2008	16/Jun/2008	16/Jun/2008	16/Jun/2008	16/Jun/2008	16/Jun/2008	16/Jun/2008	16/Jun/2008	23/Sep/2008	23/Sep/2008			
Trt-Eval Interval	14 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	120 DA-A	120 DA-A			
ARM Action Codes													
# Subsamples, Dec.													
Trt Treatment													
No. Name	Rate	Unit	Appl Code	22	23	24	25	26	27	28	29	30	31
1 CADET	0.5 oz/a	A		7.50 b	88.75 a	97.50 a	83.75 a	93.75 a	81.25 a	85.00 a	6.25 b	6.08 a	13.30 a
GLYFOS XTRA	24 oz/a	A											
NIS	0.25 % v/v	A											
2 CADET	0.7 oz/a	A		13.75 a	85.00 a	100.00 a	77.50 ab	91.25 a	75.00 a	86.25 a	10.00 ab	4.10 bc	12.33 a
GLYFOS XTRA	24 oz/a	A											
NIS	0.25 % v/v	A											
3 CADET	0.9 oz/a	A		16.25 a	86.25 a	97.50 a	73.75 b	93.75 a	76.25 a	90.00 a	12.50 a	4.35 b	12.60 a
GLYFOS XTRA	24 oz/a	A											
NIS	0.25 % v/v	A											
4 NONTREATED				0.00 c	0.00 b	0.00 b	0.00 c	0.00 b	0.00 b	0.00 b	0.00 c	2.70 c	16.63 a
LSD (P=.05)				3.999	5.332	4.215	8.430	3.332	9.330	13.077	4.665	1.574	7.550
Standard Deviation				2.500	3.333	2.635	5.270	2.083	5.833	8.176	2.917	0.984	4.721
CV				26.67	5.13	3.57	8.97	2.99	10.04	12.52	40.58	22.85	34.43
Grand Mean				9.38	65.0	73.75	58.75	69.69	58.13	65.31	7.19	4.31	13.71
Bartlett's X2				0.079	0.421	0.829	1.757	1.7	0.549	1.213	0.707	1.78	18.697
P(Bartlett's X2)				0.961	0.81	0.363	0.415	0.427	0.76	0.545	0.40	0.619	0.001*
Replicate F				0.333	7.125	1.800	1.950	5.160	1.776	4.325	0.673	9.694	1.746
Replicate Prob(F)				0.8017	0.0094	0.2172	0.1922	0.0239	0.2216	0.0379	0.5896	0.0035	0.2272
Treatment F				33.667	676.875	1393.200	223.350	1990.440	177.367	113.727	13.898	7.921	0.707
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0010	0.0068	0.5716

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LSU Northeast Research Station

Weed Code
 Crop Code GLXMA
 Rating Data Type YIELD
 Rating Unit BU/A
 Rating Date 23/Sep/2008
 Trt-Eval Interval 120 DA-A
 ARM Action Codes TY1
 # Subsamples, Dec. 1

Trt	Treatment	Rate	Unit	Appl	Code	32
1	CADET	0.5 oz/a	A			26.4 a
	GLYFOS XTRA	24 oz/a	A			
	NIS	0.25 % v/v	A			
2	CADET	0.7 oz/a	A			17.9 bc
	GLYFOS XTRA	24 oz/a	A			
	NIS	0.25 % v/v	A			
3	CADET	0.9 oz/a	A			18.9 b
	GLYFOS XTRA	24 oz/a	A			
	NIS	0.25 % v/v	A			
4	NONTREATED					10.9 c
LSD (P=.05)						7.23
Standard Deviation						4.52
CV						24.42
Grand Mean						18.52
Bartlett's X2						3.098
P(Bartlett's X2)						0.377
Replicate F						7.692
Replicate Prob(F)						0.0075
Treatment F						7.827
Treatment Prob(F)						0.0071

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 Column 32: TY1 = 4.353823*[30]*(100-[31])/87