

LSU Northeast Research Station

EVALUATION OF VISION FOR PREPLANT BURNDOWN WEED CONTROL IN SOYBEAN

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

SITE AND DESIGN

Plot Width, Unit: 6.67 FT Plot Length, Unit: 17.5 FT Reps: 3

Site Type: _____

Tillage Type: _____ Study Design: RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

APPLICATION DESCRIPTION

	A
Application Date:	21/Apr/2006
Time of Day:	10:05 AM
Application Method:	SPRAY
Application Timing:	EARPRE
Applic. Placement:	BROFOL
Air Temp., Unit:	80 F
% Relative Humidity:	74
Wind Velocity, Unit:	1.3 MPH
Dew Presence (Y/N):	N
Water Hardness:	
Soil Temp., Unit:	80 F
Soil Moisture:	DRY
% Cloud Cover:	100

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	GLXMA N/A
Stage Scale:	
Height, Unit:	

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	OEOLA 6-10" DIA
Stage Scale:	
Density, Unit:	
Weed 2 Code, Stage:	COPSP 2-6" DIA
Stage Scale:	
Density, Unit:	

APPLICATION EQUIPMENT

	A
Appl. Equipment:	CO2 BCPCCK
Operating Pressure:	36 PSI
Nozzle Type:	A1
Nozzle Size:	110002
Nozzle Spacing, Unit:	20 "
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									
Weed Code		OEOLA	COPSS	OEOLA	COPSS	GLXMA	GLXMA	GLXMA			
Crop Code		CONTROL	CONTROL	CONTROL	CONTROL	INJURY	AVG CROP HT	AVG STD CT			
Rating Data Type		%	%	%	%	%	CM				
Rating Unit		28/Apr/2006	28/Apr/2006	5/May/2006	5/May/2006	19/May/2006	26/May/2006	26/May/2006			
Rating Date		7 DA-A	7 DA-A	14 DA-A	14 DA-A	7 DAP	14 DAP	14 DAP			
Trt-Eval Interval											
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6	7
1	VISION	4 oz/a	A		8.33 cd	8.33 c	15.00 de	16.67 d	0.00 a	10.07 a	74.33 a
2	VISION	6 oz/a	A		11.67 bcd	10.00 c	20.00 cd	26.67 cd	0.00 a	9.90 a	57.00 a
3	VISION	8 oz/a	A		10.00 bcd	6.67 c	30.00 cd	26.67 cd	0.00 a	9.60 a	54.50 a
4	VISION	4 oz/a	A		48.33 a	28.33 b	53.33 b	45.00 b	0.00 a	9.77 a	50.00 a
	GRAMOXONE MAX	24 oz/a	A								
	NIS	0.25 % v/v	A								
5	VISION	6 oz/a	A		51.67 a	31.67 b	68.33 ab	71.67 a	0.00 a	9.97 a	70.67 a
	GRAMOXONE MAX	24 oz/a	A								
	NIS	0.25 % v/v	A								
6	VISION	8 oz/a	A		60.00 a	56.67 a	78.33 a	76.67 a	0.00 a	10.03 a	69.50 a
	GRAMOXONE MAX	24 oz/a	A								
	NIS	0.25 % v/v	A								
7	GRAMAXONE MAX	24 oz/a	A		60.00 a	38.33 b	70.00 a	66.67 a	0.00 a	10.57 a	60.00 a
	NIS	0.25 % v/v	A								
8	THUNDERMASTER	48 oz/a	A		21.67 bc	10.00 c	31.67 c	31.67 bcd	0.00 a	10.00 a	65.67 a
9	COSTARR	48 oz/a	A		21.67 bc	8.33 c	28.33 cd	35.00 bc	0.00 a	9.47 a	70.67 a
10	OUTLAW II	28 oz/a	A		25.00 b	13.33 c	35.00 c	38.33 bc	0.00 a	11.07 a	78.17 a
11	NTC				0.00 d	0.00 c	0.00 e	0.00 e	0.00 a	8.90 a	72.00 a
LSD (P=.05)					15.356	13.684	16.246	16.042	0.000	1.630	34.131
Standard Deviation					9.016	8.034	9.539	9.419	0.000	0.957	20.039
CV					31.15	41.75	24.4	23.82	0.0	9.63	30.51
Grand Mean					28.94	19.24	39.09	39.55	0.0	9.94	65.68
Bartlett's X2					12.675	15.605	16.964	10.804	0.0	19.356	6.151
P(Bartlett's X2)					0.124	0.029*	0.049*	0.289	.	0.036*	0.802
Replicate F					4.762	2.265	3.922	1.460	0.000	0.661	0.502
Replicate Prob(F)					0.0203	0.1298	0.0366	0.2559	1.0000	0.5270	0.6128
Treatment F					17.946	13.824	20.761	19.202	0.000	1.030	0.608
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	1.0000	0.4544	0.7894

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		GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	
Crop Code		INJURY	AVG CROP HT	YIELD	MOISTURE	YIELD	
Rating Data Type		%	CM	LB/PLOT	%	BU/A	
Rating Unit							
Rating Date		26/May/2006	9/Jun/2006	11/Sep/2006	11/Sep/2006	30/Oct/2006	
Trt-Eval Interval		14 DAP	28 DAP	143 DA-A	143 DA-A	192 DA-A	
ARM Action Codes						TY1	
# Subsamples, Dec.						1	
Trt Treatment	Rate	Appl					
No. Name	Unit	Code	8	9	10	11	12
1 VISION	4 oz/a	A	0.00 a	16.00 a	1.23 a	11.03 a	7.1 a
2 VISION	6 oz/a	A	0.00 a	15.00 a	0.33 a	0.13 a	2.4 a
3 VISION	8 oz/a	A	0.00 a	15.43 a	0.70 a	1.27 a	4.9 a
4 VISION	4 oz/a	A	0.00 a	16.53 a	0.50 a	0.17 a	3.6 a
GRAMOXONE MAX	24 oz/a	A					
NIS	0.25 % v/v	A					
5 VISION	6 oz/a	A	0.00 a	16.53 a	1.57 a	10.43 a	9.5 a
GRAMOXONE MAX	24 oz/a	A					
NIS	0.25 % v/v	A					
6 VISION	8 oz/a	A	0.00 a	16.17 a	0.83 a	0.77 a	5.9 a
GRAMOXONE MAX	24 oz/a	A					
NIS	0.25 % v/v	A					
7 GRAMOXONE MAX	24 oz/a	A	0.00 a	15.17 a	0.57 a	0.20 a	4.0 a
NIS	0.25 % v/v	A					
8 THUNDERMASTER	48 oz/a	A	0.00 a	17.07 a	1.00 a	1.90 a	6.9 a
9 COSTARR	48 oz/a	A	0.00 a	15.87 a	0.57 a	0.13 a	4.0 a
10 OUTLAW II	28 oz/a	A	0.00 a	17.87 a	0.87 a	0.87 a	6.1 a
11 NTC			0.00 a	16.40 a	0.50 a	0.17 a	3.6 a
LSD (P=.05)			0.000	1.986	0.837	10.885	4.73
Standard Deviation			0.000	1.166	0.491	6.391	2.77
CV			0.0	7.21	62.34	259.73	52.61
Grand Mean			0.0	16.18	0.79	2.46	5.27
Bartlett's X2			0.0	7.324	11.339	80.041	7.378
P(Bartlett's X2)			.	0.695	0.332	0.001*	0.689
Replicate F			0.000	0.856	4.524	2.036	5.877
Replicate Prob(F)			1.0000	0.4398	0.0239	0.1567	0.0098
Treatment F			0.000	1.552	1.662	1.254	1.642
Treatment Prob(F)			1.0000	0.1932	0.1601	0.3186	0.1657

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.

Column 12: TY1 = 6.219747*[10]*(100-[11])/87