

Control of Volunteer Roundup Ready Corn in Soybean.

Project Code: 06-5C-S80 Location: Belleville Research Center
Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
Trial Status: Final **Updated:** 11-22-06

Objective:

Evaluate Fusilade, Select Max and Scepter for control of volunteer Roundup Ready corn in Roundup Ready soybean.

Weed Code	Common Name	Scientific Name
1.	ZEAMX corn, volunteer	Zea mays L.
2.	AMATA waterhemp, common	Amaranthus rudis Sauer

Crop 1:	GLXMA soybean	Variety:	Asgrow 4403 RR
Planting Method:	Seeded	Planting Date:	5-26-06
Rate:	75 lb/A	Depth:	1.0 IN
Row Spacing:	30 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	30 FT	Reps:	3
Tillage Type:	Reduced-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	ZEAMX, 2005				
Field Prep./Maintenance:	N 0 LB/A, P205 50 LB/A, K20 150 LB/A				

Soil Name:	Weir	% OM:	1.5	pH:	6.5	CEC:	7
Texture:	Silt loam	Fert. Level:	P1: 74 LB/A, K: 243 LB/A				

APPLICATION DESCRIPTION

	A	B
Application Date:	5-26-06	7-5-06
Time of Day:	15:00	9:00
Application Method:	Spray	Spray
Application Timing:	PRE	18"CN
Applic. Placement:	BROS01	BROFOL
Air Temp., Unit:	90 F	72 F
% Relative Humidity:	48	92
Wind Velocity, Unit:	3-5 MPH	3-4 MPH
Soil Moisture:	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	GLXMA NA	GLXMA V3
Height, Unit:	NA NA	7 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code:		ZEAMX
Stage (leaves):		5-6
Height (inches):		17-18
Density:		High
Weed 2 Code:		AMATA
Stage (leaves):		12-14
Height (inches):		10-12
Density:		High

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan
Nozzle Size:	8003	8002
Boom Length, Unit:	7.5 FT	7.5 FT
Spray Volume, Unit:	20 GPA	20 GPA

NOTES:

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Weed Code						ZEAMX	ZEAMX	AMATA	AMATA
Crop Code						GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type						Moisture	Yield	Injury	Injury
Rating Unit						Percent	bu/A	Percent	Percent
Rating Date						10-21-06	10-21-06	7-19-06	8-2-06
Trt-Eval Interval						14 DA-B	28 DA-B	14 DA-B	28 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code
1	NONTREATED					13.9	13	0	0
2	FUSILADE DX	2 EC		0.0625	lb ai/a	4	fl oz/a	18"CN	B
2	TOUCHDOWN TOTAL	4.17 SC		0.78	lb ae/a	24	fl oz/a	18"CN	B
2	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	18"CN	B
3	FUSILADE DX	2 EC		0.094	lb ai/a	6	fl oz/a	18"CN	B
3	TOUCHDOWN TOTAL	4.17 SC		0.78	lb ae/a	24	fl oz/a	18"CN	B
3	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	18"CN	B
4	SELECT MAX	0.97 EC		0.0455	lb ai/a	6	fl oz/a	18"CN	B
4	TOUCHDOWN TOTAL	4.17 SC		0.78	lb ae/a	24	fl oz/a	18"CN	B
4	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	18"CN	B
5	FUSILADE DX	2 EC		0.0625	lb ai/a	4	fl oz/a	18"CN	B
5	TOUCHDOWN TOTAL	4.17 SC		0.78	lb ae/a	24	fl oz/a	18"CN	B
5	PRIME OIL COC	100 LIQ		0.5	% v/v	0.5	% v/v	18"CN	B
5	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	18"CN	B
6	FUSILADE DX	2 EC		0.094	lb ai/a	6	fl oz/a	18"CN	B
6	TOUCHDOWN TOTAL	4.17 SC		0.78	lb ae/a	24	fl oz/a	18"CN	B
6	PRIME OIL COC	100 LIQ		0.5	% v/v	0.5	% v/v	18"CN	B
6	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	18"CN	B
7	SELECT MAX	0.97 EC		0.0455	lb ai/a	6	fl oz/a	18"CN	B
7	TOUCHDOWN TOTAL	4.17 SC		0.78	lb ae/a	24	fl oz/a	18"CN	B
7	PRIME OIL COC	100 LIQ		0.5	% v/v	0.5	% v/v	18"CN	B
7	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	18"CN	B
8	SCEPTER	70 WG		0.0875	lb ai/a	2	oz/a	PRE	A
8	SCEPTER	70 WG		0.035	lb ai/a	0.8	oz/a	18"CN	B
8	CORNERSTONE	3 SL		0.56	lb ae/a	24	fl oz/a	18"CN	B
8	ACTIVATOR 90	100 LIQ		0.25	% v/v	0.25	% v/v	18"CN	B
8	AMS	100 DRY		2.5	lb/a	12.5	lb/100 gal	18"CN	B
LSD (P=.05)						0.87	4.7	0.0	0.0
Replicate F						1.272	42.184	0.000	0.000
Replicate Prob(F)						0.3108	0.0001	1.0000	1.0000
Treatment F						1.166	14.896	0.000	0.000
Treatment Prob(F)						0.3804	0.0001	1.0000	1.0000

Trial Comments

1. Protocol: Syngenta, BASF.
2. Ratings: WC 14 + 28 DA POST.
3. Spread RR corn seed prior to final tillage pass for volunteer evaluations.
4. Yield possibly, but not likely.
5. Blanket PRE application of Dual II Magnum 1.33 pt/A, 10 ft wide to all plots.
6. DA-B = Days after 18"CN application.
7. Harvested 10-21-06, (2) 30 inch rows by 27 ft.