

Control of Volunteer Roundup Ready Corn with V-10137 and V-10139.

Project Code: 05-5D-S70 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: 11-14-05**Objective:**Evaluate tank-mixtures of V-10139 with glyphosate for control
of volunteer glyphosate-resistant corn.

Weed Code	Common Name	Scientific Name
1.	ZEAMX corn, volunteer Zea mays L.	
2.	SETFA foxtail, giant	Setaria faberi Herrm.

Crop 1:	GLXMA soybean	Variety:	Asgrow 4403 RR
Planting Method:	Seeded	Planting Date:	5-17-05
Rate:	75 lb/A	Depth:	1.0 IN
Row Spacing:	30 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	28 FT	Reps:	3
Tillage Type:	Reduced-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	ZEAMX, 2004				

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K2O 150 LB/A

Soil Name:	Weir	% OM:	1.5	pH:	6.6	CEC:	7
Texture:	Silt loam	Fert. Level:	P1: 81 LB/A, K: 313 LB/A				

APPLICATION DESCRIPTION

APPLICATION DESCRIPTION		A
Application Date:	06-24-05	
Time of Day:	8:30	
Application Method:	Spray	
Application Timing:	18"CN	
Applic. Placement:	BROFOL	
Air Temp., Unit:	81 F	
% Relative Humidity:	70	
Wind Velocity, Unit:	3 MPH	
Soil Moisture:	BELNOR	

CROP STAGE AT EACH APPLICATION

CROP STAGE AT EACH APPLICATION		A
Crop 1 Code, Stage:	GLXMA V4	
Height, Unit:	8-9 IN	

WEED STAGE AT EACH APPLICATION

WEED STAGE AT EACH APPLICATION		A
Weed 1 Code:	ZEAMX	
Stage (leaves):	V5-V6	
Height (inches):	14-18	
Density:	High	
Weed 2 Code:	SETFA	
Stage (leaves):	5-7	
Height (inches):	8-10	
Density:	Medium	

APPLICATION EQUIPMENT

APPLICATION EQUIPMENT		A
Appl. Equipment:	CO2 sprayer	
Operating Pressure:	40 PSI	
Nozzle Type:	Flat fan	
Nozzle Size:	8002	
Boom Length, Unit:	7.5 FT	
Spray Volume, Unit:	15 GPA	

NOTES:

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Weed Code		Crop Code		Rating Data Type		Rating Unit		Rating Date		Trt-Eval Interval		GLXMA	GLXMA	ZEAMX	ZEAMX	SETFA	SETFA
												Injury	Injury	Control	Control	Control	Control
												Percent	Percent	Percent	Percent	Percent	Percent
												07-08-05	07-22-05	07-08-05	07-22-05	07-08-05	07-22-05
												14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
1	NONTREATED											0	0	0	0	0	0
2	V-10137	1	EC	0.047	lb ai/a	6	fl oz/a	14-18"	CN A			0	0	47	7	99	99
2	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	14-18"	CN A								
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	14-18"	CN A								
3	V-10137	1	EC	0.047	lb ai/a	6	fl oz/a	14-18"	CN A			0	0	43	3	99	99
3	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	14-18"	CN A								
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	1	qt/100 gal	14-18"	CN A								
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	14-18"	CN A								
4	V-10139	1.6	EC	0.05	lb ai/a	4	fl oz/a	14-18"	CN A			0	0	37	0	99	99
4	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	14-18"	CN A								
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	14-18"	CN A								
5	V-10139	1.6	EC	0.05	lb ai/a	4	fl oz/a	14-18"	CN A			0	0	37	0	99	99
5	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	14-18"	CN A								
5	ACTIVATOR 90	100	LIQ	0.25	% v/v	1	qt/100 gal	14-18"	CN A								
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	14-18"	CN A								
6	V-10137	1	EC	0.047	lb ai/a	6	fl oz/a	14-18"	CN A			0	0	60	3	99	99
6	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	14-18"	CN A								
6	ACTIVATOR 90	100	LIQ	0.25	% v/v	1	qt/100 gal	14-18"	CN A								
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	14-18"	CN A								
7	ARROW	2	EC	0.0625	lb ai/a	4	fl oz/a	14-18"	CN A			0	0	47	0	99	99
7	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	14-18"	CN A								
7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	14-18"	CN A								
LSD (P=.05)											0.0	0.0	16.4	7.1	0.0	0.0	
Replicate F											0.000	0.000	1.556	0.300	0.000	0.000	
Replicate Prob(F)											1.0000	1.0000	0.2507	0.7462	1.0000	1.0000	
Treatment F											0.000	0.000	12.411	1.300	0.000	0.000	
Treatment Prob(F)											1.0000	1.0000	0.0002	0.3282	1.0000	1.0000	

Trial Comments

1. Protocol: Valent.
2. CI/WC 14 and 28 DAT.
3. Plant volunteer rr corn prior to planting soybean.
4. DA-A = Days after 14-18"CN application.