

## Control of Volunteer Roundup Ready Corn in Soybean.

Project Code: 04-5C-E60      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:      8-27-04

## Objective:

To evaluate V-10137 versus Select and adjuvants for control of volunteer Roundup Ready corn.

Weed Code	Common Name	Scientific Name
1. ZEAMX	corn, volunteer	Zea mays L.

Crop 1:	GLXMA soybean	Variety:	Asgrow 4403 RR
Planting Method:	Seeded	Planting Date:	6-11-04
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, 2003				

Field Prep./Maintenance: N 0 LB/A, P2O5 50 LB/A, K2O 200 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

APPLICATION DESCRIPTION	
	A
Application Date:	7-13-04
Time of Day:	10:00
Application Method:	Spray
Application Timing:	18-24"CN
Applic. Placement:	BROFOL
Air Temp., Unit:	87 F
% Relative Humidity:	70
Wind Velocity, Unit:	2-3 MPH
Soil Moisture:	ABONOR

## CROP STAGE AT EACH APPLICATION

CROP STAGE AT EACH APPLICATION	
	A
Crop 1 Code, Stage:	GLXMA V4
Height, Unit:	14-16 IN

## WEED STAGE AT EACH APPLICATION

WEED STAGE AT EACH APPLICATION	
	A
Weed 1 Code:	ZEAMX
Stage(leaves):	V6-V7
Height(inches):	18-24
Density:	High

## APPLICATION EQUIPMENT

APPLICATION EQUIPMENT	
	A
Appl. Equipment:	CO2 sprayer
Operating Pressure:	40 PSI
Nozzle Type:	Flat fan
Nozzle Size:	TT 110015
Boom Length, Unit:	7.5 FT
Spray Volume, Unit:	10 GPA

## NOTES:

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Weed Code	GLXMA	GLXMA	GLXMA	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Code	Injury	Injury	Injury	Control	Control	Control	PLAGRO	PLAGRO	PLAGRO
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	7-27-04	8-6-04	8-24-04	7-27-04	8-6-04	8-24-04	7-27-04	8-6-04	8-24-04
Rating Date	14 DA-A	24 DA-A	42 DA-A	14 DA-A	24 DA-A	42 DA-A	14 DA-A	24 DA-A	42 DA-A
Trt-Eval Interval									

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	0	0	
2	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	OZ/A	18-24"	CN A	0	0	0	53	63	83	0	0	0
2	SELECT	2	EC	0.063	LB A/A	4	FL OZ/A	18-24"	CN A									
2	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	18-24"	CN A									
3	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	OZ/A	18-24"	CN A	0	0	0	50	50	75	0	0	0
3	V-10137	1	EC	0.063	LB A/A	8	FL OZ/A	18-24"	CN A									
3	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	18-24"	CN A									
4	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	OZ/A	18-24"	CN A	0	0	0	55	58	80	0	0	0
4	SELECT	2	EC	0.047	LB A/A	3	FL OZ/A	18-24"	CN A									
4	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	18-24"	CN A									
5	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	OZ/A	18-24"	CN A	0	0	0	53	53	78	0	0	0
5	V-10137	1	EC	0.047	LB A/A	6	FL OZ/A	18-24"	CN A									
5	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	18-24"	CN A									
6	ROUNDUP W-MAX	4.5	SL	0.387	LB AE/A	11	OZ/A	18-24"	CN A	0	0	0	40	32	22	0	0	0
6	SELECT	2	EC	0.0312	LB A/A	2	OZ/A	18-24"	CN A									
7	ROUNDUP W-MAX	4.5	SL	0.387	LB AE/A	11	OZ/A	18-24"	CN A	0	0	0	56	62	78	0	0	0
7	SELECT	2	EC	0.0312	LB A/A	2	OZ/A	18-24"	CN A									
7	N-PAK AMS	100	LIQ	2.5	% V/V	2.5	% V/V	18-24"	CN A									
8	ROUNDUP W-MAX	4.5	SL	0.387	LB AE/A	11	OZ/A	18-24"	CN A	0	0	0	43	40	68	0	0	0
8	SELECT	2	EC	0.0312	LB A/A	2	OZ/A	18-24"	CN A									
8	ALLIANCE	100	LIQ	1.25	% V/V	1.25	% V/V	18-24"	CN A									
9	ROUNDUP W-MAX	4.5	SL	0.387	LB AE/A	11	OZ/A	18-24"	CN A	0	0	0	48	52	76	0	0	0
9	SELECT	2	EC	0.0312	LB A/A	2	OZ/A	18-24"	CN A									
9	DESTINY MSO	100	LIQ	1.0	% V/V	1	% V/V	18-24"	CN A									
9	N-PAK AMS	100	LIQ	2.5	% V/V	2.5	% V/V	18-24"	CN A									
10	ROUNDUP W-MAX	4.5	SL	0.387	LB AE/A	11	OZ/A	18-24"	CN A	0	0	0	48	55	73	0	0	0
10	SELECT	2	EC	0.0312	LB A/A	2	OZ/A	18-24"	CN A									
10	PREFERENCE	100	LIQ	0.25	% V/V	0.25	% V/V	18-24"	CN A									
10	N-PAK AMS	100	LIQ	2.5	% V/V	2.5	% V/V	18-24"	CN A									
11	ROUNDUP W-MAX	4.5	SL	0.387	LB AE/A	11	OZ/A	18-24"	CN A	0	0	0	58	58	78	0	0	0
11	SELECT	2	EC	0.0312	LB A/A	2	OZ/A	18-24"	CN A									
11	SUPERB HC	100	LIQ	0.5	% V/V	0.5	% V/V	18-24"	CN A									
11	N-PAK AMS	100	LIQ	2.5	% V/V	2.5	% V/V	18-24"	CN A									
12	ROUNDUP W-MAX	4.5	SL	0.387	LB AE/A	11	OZ/A	18-24"	CN A	0	0	0	48	47	70	0	0	0
12	SELECT	2	EC	0.0312	LB A/A	2	OZ/A	18-24"	CN A									
12	SUPERB HC	100	LIQ	0.5	% V/V	0.5	% V/V	18-24"	CN A									
12	ALLIANCE	100	LIQ	1.25	% V/V	1.25	% V/V	18-24"	CN A									
13	ROUNDUP W-MAX	4.5	SL	0.387	LB AE/A	11	OZ/A	18-24"	CN A	0	0	0	47	55	73	0	0	0
13	SELECT	2	EC	0.0312	LB A/A	2	OZ/A	18-24"	CN A									
13	AG 03002	100	LIQ	1.0	% V/V	1	% V/V	18-24"	CN A									

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Crop Code																				
Rating Data Type																				
Rating Unit																				
Rating Date																				
Trt-Eval Interval																				

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Injury Percent 7-27-04 14 DA-A	GLXMA Injury Percent 8-6-04 24 DA-A	GLXMA Injury Percent 8-24-04 42 DA-A	ZEAMX Control Percent 7-27-04 14 DA-A	ZEAMX Control Percent 8-6-04 24 DA-A	ZEAMX Control Percent 8-24-04 42 DA-A	ZEAMX PLAGRO Percent 7-27-04 14 DA-A	ZEAMX PLAGRO Percent 8-6-04 24 DA-A	ZEAMX PLAGRO Percent 8-24-04 42 DA-A
14	ROUNDUP W-MAX	4.5	SL	0.387	LB AE/A	11	OZ/A	18-24"CN	A	0	0	0	55	62	85	0	0	0
14	SELECT	2	EC	0.0312	LB A/A	2	OZ/A	18-24"CN	A									
14	AG 03002	100	LIQ	1.5	% V/V	1.5	% V/V	18-24"CN	A									
15	ROUNDUP W-MAX	4.5	SL	0.387	LB AE/A	11	OZ/A	18-24"CN	A	0	0	0	50	50	73	0	0	0
15	SELECT	2	EC	0.0312	LB A/A	2	OZ/A	18-24"CN	A									
15	AG 03002	100	LIQ	2.0	% V/V	2	% V/V	18-24"CN	A									
16	BACKDRAFT	1.5	SL	0.94	LB A/A	2.5	QT/A	18-24"CN	A	0	0	0	47	53	70	0	0	0
16	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	% V/V	18-24"CN	A									
16	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	18-24"CN	A									
LSD (P=.05)										0.0	0.0	0.0	10.6	17.8	8.6	0.0	0.0	0.0
Replicate F										0.000	0.000	0.000	8.018	2.958	4.447	0.000	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	1.0000	0.0016	0.0672	0.0203	1.0000	1.0000	1.0000
Treatment F										0.000	0.000	0.000	13.560	6.290	59.534	0.000	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	1.0000	1.0000	1.0000

Trial Comments

1. Protocol: Valent, Agrilience, BASF.
2. Ratings: Rate percent volunteer corn that is "on the ground", CI and WC 14, 28, and 42 DAT.
3. Plant RR corn between rows of soybean.
4. DA-A = Days after 18-24"CN application.
5. PLAGRO = Plants on the ground.