

Control of Volunteer Roundup Ready Corn in Soybean with Targa.

Project Code: 07-6B-MN30 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: 1-23-08**Objective:**Compare Targa to Select for control of volunteer Roundup Ready corn  
in soybean.**Weed Code Common Name Scientific Name**

1. ZEAMX corn, volunteer Zea mays L.

Crop 1: GLXMA soybean Variety: Asgrow 4404 RR/STS  
Planting Method: Seeded Planting Date: 6-3-07  
Rate: 75 lb/A Depth: 1.0 IN  
Row Spacing: 30 INPlot Width, Unit: 10 FT Plot Length, Unit: 21 FT Reps: 3  
Tillage Type: Reduced-Till Study Design: Randomized complete block  
Previous Crop, Year: GLXMA, 2006  
Field Prep./Maintenance: N 150 LB/A, P2O5 50 LB/A, K2O 0 LB/ASoil Name: Stoy % OM: 2.1 pH: 6.6 CEC: 8  
Texture: Silt loam Fert. Level: P1: 55 LB/A, K: 401 LB/A**APPLICATION DESCRIPTION**

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Application Date: 6-27-07  
Time of Day: 9:30  
Application Method: Spray  
Application Timing: 12"CN  
Applic. Placement: BROFOL  
Air Temp., Unit: 78 F  
% Relative Humidity: 92  
Wind Velocity, Unit: 0-2 MPH  
Dew Presence (Y/N): N  
Soil Moisture: ABONOR  
% Cloud Cover: 100**CROP STAGE AT EACH APPLICATION**

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Crop 1 Code, Stage: GLXMA V2-V3  
Height, Unit: 8 IN**WEED STAGE AT EACH APPLICATION**

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Weed 1 Code: ZEAMX  
Stage(leaves): V5  
Height(inches): 8-15  
Density: High**APPLICATION EQUIPMENT**

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

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Weed Code	GLXMA	GLXMA	GLXMA	ZEAMX	ZEAMX	ZEAMX
Crop Code	Injury	Injury	Injury	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	7-4-07	7-11-07	7-25-07	7-4-07	7-11-07	7-25-07
Rating Date	7 DA-A	14 DA-A	28 DA-A	7 DA-A	14 DA-A	28 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	TARGA	0.88	EC	0.0275	lb ai/a	4	fl oz/a	12"CN	A	0 a	0 a	0 a	58 ab	99 a	99 a
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	12"CN	A						
1	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	12"CN	A						
1	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	12"CN	A						
2	TARGA	0.88	EC	0.0275	lb ai/a	4	fl oz/a	12"CN	A	0 a	0 a	0 a	59 a	99 a	99 a
2	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	12"CN	A						
2	PRIME OIL COC	100	LIQ	0.5	% v/v	0.5	% v/v	12"CN	A						
2	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	12"CN	A						
3	TARGA	0.88	EC	0.0344	lb ai/a	5	fl oz/a	12"CN	A	0 a	0 a	0 a	58 ab	99 a	99 a
3	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	12"CN	A						
3	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	12"CN	A						
3	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	12"CN	A						
4	SELECT	2	EC	0.0625	lb ai/a	4	fl oz/a	12"CN	A	0 a	0 a	0 a	59 a	97 b	98 a
4	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	12"CN	A						
4	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	12"CN	A						
4	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	12"CN	A						
5	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	12"CN	A	0 a	0 a	0 a	56 b	96 b	98 a
5	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	12"CN	A						
5	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	12"CN	A						
5	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	12"CN	A						
6	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	12"CN	A	0 a	0 a	0 a	4 c	1 c	0 b
6	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	12"CN	A						
6	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	12"CN	A						
LSD (P=.05)										0.0	0.0	0.0	3.3	1.4	1.6
Replicate F										0.000	0.000	0.000	2.270	0.789	0.493
Replicate Prob(F)										1.0000	1.0000	1.0000	0.1539	0.4805	0.6249
Treatment F										0.000	0.000	0.000	448.113	7435.317	6170.818
Treatment Prob(F)										1.0000	1.0000	1.0000	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Trial Comments

1. Protocol: Gowan.
2. Ratings: CI/WC at 7, 14 + 28 DAT.
3. Photos appreciated.
4. Plant RR corn perpendicular to soybean rows or broadcast prior to tillage.
5. Blanket PRE application of Dual II Magnum (1.33 pt/A) was applied on 6-4-07.
6. DA-A = Days after 12"CN application.