

Control of Volunteer Roundup Ready Corn - Agrilience.

Project Code: 07-6B-MS40 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:**

Determine the efficacy of clethodim applied with glyphosate and various 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 4404 RR/STS  
 Planting Method: Seeded Planting Date: 6-3-07  
 Rate: 75 lb/A Depth: 1.0 IN  
 Row Spacing: 30 IN

Plot 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, P205 50 LB/A, K20 0 LB/A

Soil 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**

A

Application Date: 7-2-07  
 Time of Day: 9:45  
 Application Method: Spray  
 Application Timing: 12-18"CN  
 Applic. Placement: BROFOL  
 Air Temp., Unit: 70 F  
 % Relative Humidity: 92  
 Wind Velocity, Unit: 3-5 MPH  
 Dew Presence (Y/N): N  
 Soil Moisture: ABONOR  
 % Cloud Cover: 20

**CROP STAGE AT EACH APPLICATION**

A

Crop 1 Code, Stage: GLXMA V3  
 Height, Unit: 10 IN

**WEED STAGE AT EACH APPLICATION**

A

Weed 1 Code: ZEAMX  
 Stage(leaves): V6  
 Height(inches): 15-20  
 Density: High

**APPLICATION EQUIPMENT**

A

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	ZEAMX	ZEAMX
Crop Code	Injury	Injury	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent
Rating Unit	7-16-07	7-30-07	7-16-07	7-30-07
Rating Date	14 DA-A	28 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	NONTREATED									0 a	0 a	0 f	0 f
2	TOUCHDOWN HI-TECH	5	SC	0.43	lb ae/a	11	fl oz/a	12-18"CN	A	0 a	0 a	6 e	3 e
2	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	12-18"CN	A				
3	TOUCHDOWN HI-TECH	5	SC	0.43	lb ae/a	11	fl oz/a	12-18"CN	A	0 a	0 a	4 e	0 f
3	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	12-18"CN	A				
3	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	12-18"CN	A				
4	TOUCHDOWN HI-TECH	5	SC	0.43	lb ae/a	11	fl oz/a	12-18"CN	A	0 a	0 a	32 d	20 d
4	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	12-18"CN	A				
4	PREFERENCE	100	LIQ	0.25	% v/v	0.25	% v/v	12-18"CN	A				
4	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	12-18"CN	A				
5	TOUCHDOWN HI-TECH	5	SC	0.43	lb ae/a	11	fl oz/a	12-18"CN	A	0 a	0 a	69 b	83 b
5	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	12-18"CN	A				
5	PREFERENCE	100	LIQ	0.25	% v/v	0.25	% v/v	12-18"CN	A				
5	PRIME OIL COC	100	LIQ	0.25	% v/v	0.25	% v/v	12-18"CN	A				
5	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	12-18"CN	A				
6	TOUCHDOWN HI-TECH	5	SC	0.43	lb ae/a	11	fl oz/a	12-18"CN	A	0 a	0 a	64 c	90 a
6	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	12-18"CN	A				
6	SUPERB HC	100	LIQ	0.5	% v/v	0.5	% v/v	12-18"CN	A				
6	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	12-18"CN	A				
7	TOUCHDOWN HI-TECH	5	SC	0.43	lb ae/a	11	fl oz/a	12-18"CN	A	0 a	0 a	73 a	89 a
7	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	12-18"CN	A				
7	AG 05055	100	LIQ	2.5	% v/v	2.5	% v/v	12-18"CN	A				
8	TOUCHDOWN HI-TECH	5	SC	0.43	lb ae/a	11	fl oz/a	12-18"CN	A	0 a	0 a	68 b	72 c
8	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	12-18"CN	A				
8	AG 05006	100	LIQ	0.5	% v/v	0.5	% v/v	12-18"CN	A				
8	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	12-18"CN	A				
LSD (P=.05)										0.0	0.0	3.0	2.7
Replicate F										0.000	0.000	0.704	3.978
Replicate Prob(F)										1.0000	1.0000	0.5112	0.0429
Treatment F										0.000	0.000	1101.107	2247.799
Treatment Prob(F)										1.0000	1.0000	0.0001	0.0001

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

Trial Comments

1. Protocol: Agrilience.
2. Ratings: CI/WC at 14 + 28 DAT.
3. Plant RR corn perpendicular to soybean rows or broadcast prior to tillage.
4. Blanket PRE application of Dual II Magnum (1.33 pt/A) applied 6-4-07.
5. DA-A = Days after 12-18"CN application.