

Control of Large Volunteer Corn.

Project Code: 05-10A-M30 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 enhanced formulations of clethodim for control of volunteer corn.

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

Crop 1: ZEAMX corn, field **Variety:** DKC 60-17 RR
Planting Method: Seeded **Planting Date:** 5-23-05
Rate: 28000 S/A **Depth:** 1.5 IN
Row Spacing: 30 IN

Plot Width, Unit: 10 FT **Plot Length, Unit:** 25 FT **Reps:** 3
Tillage Type: Reduced-Till **Study Design:** Randomized complete block
Previous Crop, Year: GLXMA, 2004

Field Prep./Maintenance: N 150 LB/A, P205 50 LB/A, K20 100 LB/A

Soil Name: Weir **% OM:** 2 **pH:** 6.1 **CEC:** 12
Texture: Silt loam **Fert. Level:** P1: 77 LB/A, K: 441 LB/A

APPLICATION DESCRIPTION

A
Application Date: 07-01-05
Time of Day: 15:40
Application Method: Spray
Application Timing: 36"CN
Applic. Placement: BROFOL
Air Temp., Unit: 84 F
% Relative Humidity: 38
Wind Velocity, Unit: 2-3 MPH
Soil Moisture: BELNOR

CROP STAGE AT EACH APPLICATION

A
Crop 1 Code, Stage: ZEAMX V6
Height, Unit: 38-40 IN

WEED STAGE AT EACH APPLICATION

A
Weed 1 Code: ZEAMX
Stage(leaves): V6
Height(inches): 38-40

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: 20 GPA

NOTES:

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Control Percent 07-08-05 7 DA-A	ZEAMX Control Percent 07-15-05 14 DA-A	ZEAMX Control Percent 07-22-05 21 DA-A	ZEAMX Control Percent 08-05-05 35 DA-A
1	NONTREATED									0	0	0	0
2	ARROW	2	EC	0.094	lb ai/a	6	fl oz/a	36"	CN A	57	78	90	88
2	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	36"	CN A				
2	AMS	100	DRY	2.5	lb/a	2.5	lb/a	36"	CN A				
3	V-10139 (VC1569)	1.6	EC	0.075	lb ai/a	6	fl oz/a	36"	CN A	42	73	90	87
3	AMS	100	DRY	2.5	lb/a	2.5	lb/a	36"	CN A				
4	V-10139 (VC1569)	1.6	EC	0.075	lb ai/a	6	fl oz/a	36"	CN A	53	78	90	87
4	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	36"	CN A				
4	AMS	100	DRY	2.5	lb/a	2.5	lb/a	36"	CN A				
5	V-10137/SELECT MAX	0.94	EC	0.066	lb ai/a	9	fl oz/a	36"	CN A	48	68	90	80
5	AMS	100	DRY	2.5	lb/a	2.5	lb/a	36"	CN A				
6	V-10137/SELECT MAX	0.94	EC	0.066	lb ai/a	9	fl oz/a	36"	CN A	55	77	90	80
6	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	36"	CN A				
6	AMS	100	DRY	2.5	lb/a	2.5	lb/a	36"	CN A				
LSD (P=.05)										4.4	4.4	0.0	7.4
Replicate F										5.000	2.143	0.000	4.153
Replicate Prob(F)										0.0313	0.1681	1.0000	0.0487
Treatment F										238.143	489.571	0.000	219.339
Treatment Prob(F)										0.0001	0.0001	1.0000	0.0001

Trial Comments

1. Protocol: Valent.
2. Ratings: Control 14 and 28 DAT.
3. There will be a different formulation of V10139 for these trials, watch the VC numbers.
4. DA-A = Days after 36"CN application.