

Control of Small Volunteer Corn.

Project Code: 05-21-MN-alley 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:** 33P65 RR
Planting Method: Seeded **Planting Date:** 6-17-05
Rate: 28000 S/A **Depth:** 1.5 IN
Row Spacing: 30 IN

Plot Width, Unit: 10 FT **Plot Length, Unit:** 22 FT **Reps:** 3
Tillage Type: Reduced-Till **Study Design:** Randomized complete block
Previous Crop, Year: NONE , 2004

Field Prep./Maintenance: N 150 LB/A, P205 0 LB/A, K20 100 LB/A

Soil Name: Ebbert **% OM:** 2.7 **pH:** 6.2 **CEC:** 14
Texture: Silt loam **Fert. Level:** P1: 115 LB/A, K: 500 LB/A

APPLICATION DESCRIPTION

A
Application Date: 07-07-05
Time of Day: 14:30
Application Method: Spray
Application Timing: 4-8"CN
Applic. Placement: BROFOL
Air Temp., Unit: 86 F
% Relative Humidity: 36
Wind Velocity, Unit: 0-2 MPH
Soil Moisture: ABONOR

CROP STAGE AT EACH APPLICATION

A
Crop 1 Code, Stage: ZEAMX V3
Height, Unit: 8 IN

WEED STAGE AT EACH APPLICATION

A
Weed 1 Code: ZEAMX
Stage(leaves): V3
Height(inches): 8

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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Weed Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Code				
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Date	07-14-05	07-21-05	07-28-05	08-11-05
Trt-Eval Interval	7 DA-A	14 DA-A	21 DA-A	35 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
2	V-10137 (VC1463)	1	EC	0.0156	lb ai/a	2	fl oz/a	4-8"CN	A	70	33	57	57
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	4-8"CN	A				
2	AMS	100	DRY	1.5	lb/a	1.5	lb/a	4-8"CN	A				
3	V-10137 (VC1463)	1	EC	0.0312	lb ai/a	4	fl oz/a	4-8"CN	A	67	93	94	94
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	4-8"CN	A				
3	AMS	100	DRY	1.5	lb/a	1.5	lb/a	4-8"CN	A				
4	V-10139 (VC1470)	1.6	EC	0.0187	lb ai/a	1.5	fl oz/a	4-8"CN	A	73	83	83	83
4	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	4-8"CN	A				
4	AMS	100	DRY	1.5	lb/a	1.5	lb/a	4-8"CN	A				
5	V-10139 (VC1470)	1.6	EC	0.0312	lb ai/a	2.5	fl oz/a	4-8"CN	A	77	97	94	94
5	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	4-8"CN	A				
5	AMS	100	DRY	1.5	lb/a	1.5	lb/a	4-8"CN	A				
6	SELECT (VC1034)	2	EC	0.0234	lb ai/a	1.5	fl oz/a	4-8"CN	A	72	92	92	92
6	PRIME OIL COC	100	LIQ	1.0	pt/a	1	pt/a	4-8"CN	A				
6	AMS	100	DRY	1.5	lb/a	1.5	lb/a	4-8"CN	A				
LSD (P=.05)										8.4	12.8	6.7	6.7
Replicate F										2.094	0.572	2.690	2.690
Replicate Prob(F)										0.1740	0.5818	0.1162	0.1162
Treatment F										122.586	98.150	304.855	304.855
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

Trial Comments

1. Protocol: Valent.
2. Ratings: WC at 7, 14, 21 and 35 DAT.
3. Note VC number on sample formulations.
4. DA-A = Days after 4-8"CN application.