

Late-Season Vine Control in Corn.

Project Code: 05-50E-N30 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:** 10-25-05

Objective:

Evaluate herbicide options for post-directed applications in corn for control of vines.

Weed Code	Common Name	Scientific Name
1. AMBTR	ragweed, giant	Ambrosia trifida L.
2. IPOHE	morningglory, ivyleaf	Ipomoea hederacea (L.) Jacq.

Crop 1:	ZEAMX	corn, field	Variety:	33P65 RR
Planting Method:	Seeded		Planting Date:	5-5-05
Rate:	28000	S/A	Depth:	1.5 IN
Row Spacing:	30	IN		

Plot Width, Unit:	10	FT	Plot Length, Unit:	27	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 0 LB/A, K20 100 LB/A

Soil Name:	Weir	% OM:	2.2	pH:	6.7	CEC:	12
Texture:	Silt loam	Fert. Level:	P1: 101 LB/A, K: 388 LB/A				

APPLICATION DESCRIPTION

A

Application Date:	06-10-05
Time of Day:	11:30
Application Method:	Spray
Application Timing:	4-8"MG
Applic. Placement:	BRODIR
Air Temp., Unit:	86 F
% Relative Humidity:	60
Wind Velocity, Unit:	4 MPH
Soil Moisture:	NORMAL

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage:	ZEAMX V6
Height, Unit:	20-22 IN

WEED STAGE AT EACH APPLICATION

A

Weed 1 Code:	AMBTR
Stage (leaves):	4-10
Height (inches):	2-12
Density:	High
Weed 2 Code:	IPOHE
Stage (leaves):	5-7
Height (inches):	3-6
Density:	Low

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:

Application is post-directed.

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	ZEAMX Yield bu/A	ZEAMX Injury Percent	ZEAMX Injury Percent	AMBTR Control Percent	AMBTR Control Percent	IPOHE Control Percent	IPOHE Control Percent
						10-14-05	06-24-05	07-08-05	06-24-05	07-08-05	06-24-05	07-08-05
						14 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Yield	ZEAMX Injury	ZEAMX Injury	AMBTR Control	AMBTR Control	IPOHE Control	IPOHE Control
1	NONTREATED									177	0	0	0	0	0	0
2	STARANE	2.16	EC	0.135	lb ai/a	0.5	pt/a	4-6"	MG A	191	1	0	90	94	90	95
3	2,4-D LV4	3.8	EC	0.237	lb ai/a	0.5	pt/a	4-6"	MG A	207	1	0	94	99	97	99
4	STERLING	4	EC	0.25	lb ai/a	0.5	pt/a	4-6"	MG A	221	0	0	90	97	92	96
5	AIM	2	EW	0.0156	lb ai/a	1	fl oz/a	4-6"	MG A	205	0	0	43	70	98	96
5	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	4-6"	MG A							
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"	MG A	216	0	0	99	99	52	95
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"	MG A							
LSD (P=.05)										25.3	0.0	0.0	24.2	6.8	14.7	4.3
Replicate F										5.001	0.000	0.000	0.221	0.144	0.227	3.303
Replicate Prob(F)										0.0312	1.0000	1.0000	0.8052	0.8675	0.8006	0.0792
Treatment F										4.080	0.000	0.000	26.612	330.113	69.690	842.515
Treatment Prob(F)										0.0280	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001

Trial Comments

1. Protocol: Dow.
2. Ratings: CI/WC 14 and 28 DA "A".
3. Yield if possible.
4. Blanket PRE application of Keystone at 1.5 qt/A over entire area, 10 ft boom, was applied on 5-7-05.
5. Application "A" is post-directed.
6. DA-A = Days after 4-8"MG application.
7. Harvested 10-14-05, (2) 30 inch rows by 24 ft.