

## Aim Late Season Rescue in Corn.

02-22-N30

**OBJECTIVE:** Determine the effectiveness of late postemergence applications (drop nozzle) of Aim for control of escaped problem weeds.

**SUMMARY:** No corn injury was observed from Aim treatments. Ivyleaf morningglory control was 98 to 99% from all Aim treatments and Salvo alone by 7 days after treatment. There were no significant differences in corn yield between nontreated and herbicide treated plots.

**HERBICIDES**AIM 2 EW  
SALVO 5 EC**WEEDS**

morningglory, ivyleaf

**CROP**

corn, field

Bryan Young

PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

Aim Late Season Rescue in Corn.

Project Code: 02-22-N30      Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country:      Belleville      IL 62221 USA  
 Trial Status: Final      Updated:      10-24-02

**Objective:**

Determine the effectiveness of late postemergence applications of Aim for control of escaped problem weeds.

Weed Code	Common Name	Scientific Name
1.	IPOHE morningglory, ivyleaf	Ipomoea hederacea (L.) Jacq.

Crop 1:	ZEAMX corn, field	Variety:	DKC 64-10 RR
Planting Method:	Seeded	Planting Date:	5-27-02
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, 2001				

Field Prep./Maintenance: N 150 LB/A, P2O5 50 LB/A, K2O 150 LB/A

Soil Name:	Clarksdale	% OM:	1.7	pH:	5.8	CEC:	12
Texture:	Silt loam	Fert. Level:	P1: 67 LB/A, K: 235 LB/A				

**APPLICATION DESCRIPTION**

**A**

Application Date: 7-19-02  
 Time of Day: 13:00  
 Application Method: Spray  
 Application Timing: 45"CN  
 Applic. Placement: BROFOL  
 Air Temp., Unit: 86 F  
 % Relative Humidity: 62  
 Wind Velocity, Unit: 3-5 MPH  
 Soil Moisture: ABONOR

**CROP STAGE AT EACH APPLICATION**

**A**

Crop 1 Code, Stage: ZEAMX V8  
 Height, Unit: 40-55 IN

**WEED STAGE AT EACH APPLICATION**

**A**

Weed 1 Code: IPOHE  
 Stage(leaves): 4-7  
 Height(inches): 4-8  
 Density: Medium

**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:**

See comments for postemergence application details.  
 Harvested Oct-11-02, (2) 30 inch rows by 24 ft.

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Weed Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	IPOHE	IPOHE	IPOHE	IPOHE
Crop Code	Yield	Injury	Injury	Injury	Injury	Control	Control	Control	Control
Rating Data Type	bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	10-11-02	7-20-02	7-22-02	7-26-02	7-31-02	7-20-02	7-22-02	7-26-02	7-31-02
Rating Date	1 DA-A	3 DA-A	7 DA-A	12 DA-A	1 DA-A	3 DA-A	7 DA-A	12 DA-A	
Trt-Eval Interval									

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	Yield	Injury	Injury	Injury	Injury	Control	Control	Control	Control
1	NONTREATED									119	0	0	0	0	0	0	0	0
2	AIM	2	EW	0.016	LB A/A	1	OZ/A	45°CN	A	114	0	0	0	0	88	96	98	98
2	SILWET L-77	100	LIQ	0.125	% V/V	0.125	%V/V	45°CN	A									
3	AIM	2	EW	0.016	LB A/A	1	OZ/A	45°CN	A	130	0	0	0	0	87	96	99	99
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	45°CN	A									
4	AIM	2	EW	0.016	LB A/A	1	OZ/A	45°CN	A	117	0	0	0	0	98	99	99	99
4	SALVO	5	EC	0.125	LB AE/A	3.2	OZ/A	45°CN	A									
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	45°CN	A									
5	AIM	2	EW	0.016	LB A/A	1	OZ/A	45°CN	A	106	0	0	0	0	93	98	99	99
5	SALVO	5	EC	0.25	LB AE/A	6.4	OZ/A	45°CN	A									
5	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	45°CN	A									
6	SALVO	5	EC	0.25	LB AE/A	6.4	OZ/A	45°CN	A	106	0	0	0	0	93	99	99	99
6	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	45°CN	A									
LSD (P=.05)										29.6	0.0	0.0	0.0	0.0	7.4	4.5	1.7	1.7
Replicate F										4.418	0.000	0.000	0.000	0.000	0.302	1.175	1.000	1.000
Replicate Prob(F)										0.0422	1.0000	1.0000	1.0000	1.0000	0.7456	0.3481	0.4019	0.4019
Treatment F										0.925	0.000	0.000	0.000	0.000	255.123	781.596	5484.362	5484.362
Treatment Prob(F)										0.5039	1.0000	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001

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Trial Comments

1. Protocol: FMC (G037.801).
2. Postemergence application:
  - Apply using drop nozzles that are at least 15 inches above the soil profile.
  - Apply to weeds that are less than 12 inches tall.
  - Apply to corn that is at least 40 inches tall.
  - Note ear height.
3. DA-A = days after 45"CN application.