

## Perennial Eastern Black Nightshade

01-OS-Crossville

**OBJECTIVE:** Evaluate herbicide treatments for control of perennial eastern black nightshade.

**SUMMARY:** Perennial eastern black nightshade control was 10 and 65% from Flexstar and Raptor, respectively, at 28 days after treatment. Roundup Ultra Max alone controlled 89 to 93% of perennial nightshade at 28 days after treatment. Tank mixing Raptor with Roundup Ultra Max did not increase perennial nightshade control.

**HERBICIDES**

FLEXSTAR 1.88 EC  
RAPTOR 1 AS  
ROUNDUP ULTRA MAX 3.7 SL

**WEEDS**

nightshade, eastern black

**CROP**

soybean

Bryan Young

PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

## Perennial Eastern Black Nightshade

Project Code: 01-OS-Crossville Location: Crossville IL

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: BELLEVILLE IL 62221 USA  
 Trial Status: Final Initiation Date: 7-13-01

## Objective:

Evaluate herbicide treatments for control of perennial eastern black nightshade.

Weed Code	Common Name	Scientific Name
1.	SOLPT nightshade, eastern black	Solanum ptycanthum Dunal

Crop 1: GLXMA soybean  
 Planting Method: Seeded  
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 50 FT Reps: 3  
 Study Design: Randomized complete block

## APPLICATION DESCRIPTION

**A**  
 Application Date: 7-13-01  
 Time of Day: 11:00  
 Application Method: Spray  
 Application Timing: 18"W  
 Applic. Placement: BROFOL  
 Air Temp., Unit: 83 F  
 Wind Velocity, Unit: 5-10 MPH  
 Dew Presence (Y/N): N  
 Soil Temp., Unit: 76 F  
 Soil Moisture: NORMAL  
 % Cloud Cover: 0

## CROP STAGE AT EACH APPLICATION

**A**  
 Crop 1 Code, Stage: GLXMA V7-V8  
 Height, Unit: 11-13 IN

## WEED STAGE AT EACH APPLICATION

**A**  
 Weed 1 Code: SOLPT  
 Stage(leaves): 10+  
 Height(inches): 11-24  
 Density: LOW

## APPLICATION EQUIPMENT

**A**  
 Appl. Equipment: CO2 sprayer  
 Operating Pressure: 40 PSI  
 Nozzle Type: Flat fan  
 Nozzle Size: 8002  
 Boom Length, Unit: 10 FT  
 Spray Volume, Unit: 20 GPA

## NOTES: NOT HARVESTED.

This is an off-station location.

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Weed Code	GLXMA	GLXMA	SOLPT	SOLPT	SOLPT
Crop Code	Injury	Injury	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent	Percent
Rating Unit	7-27-01	8-10-01	7-27-01	8-10-01	10-12-01
Rating Date	14 DA-A	28 DA-A	14 DA-A	28 DA-A	EOS
Trt-Eval Interval					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA	GLXMA	SOLPT	SOLPT	SOLPT
1	NONTREATED									0	0	0	0	0
2	RAPTOR	1	AS	0.039	LB A/A	5	OZ/A	18"W	A	0	0	37	65	68
2	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	18"W	A					
2	AMS	100	DRY	2.0	LB/A	2	LB/A	18"W	A					
3	FLEXSTAR	1.88	EC	0.352	LB A/A	24	OZ/A	18"W	A	0	0	18	10	23
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	18"W	A					
3	AMS	100	DRY	2.0	LB/A	2	LB/A	18"W	A					
4	ROUNDUP ULTRA MAX	3.7	SL	0.76	LB AE/A	26	OZ/A	18"W	A	97		93	89	65
4	AMS	100	DRY	2.0	% W/W	2	%W/W	18"W	A					
5	ROUNDUP ULTRA MAX	3.7	SL	1.17	LB AE/A	40	OZ/A	18"W	A	97		94	93	77
5	AMS	100	DRY	2.0	% W/W	2	%W/W	18"W	A					
6	ROUNDUP ULTRA MAX	3.7	SL	1.17	LB AE/A	40	OZ/A	18"W	A	98		93	93	88
6	RAPTOR	1	AS	0.039	LB A/A	5	OZ/A	18"W	A					
6	AMS	100	DRY	2.0	% W/W	2	%W/W	18"W	A					
LSD (P=.05)										0.0	0.0	5.2	13.5	33.8
Replicate F										0.000	0.000	1.662	0.425	2.742
Replicate Prob(F)										1.0000	1.0000	0.2381	0.6652	0.1124
Treatment F										0.000	0.000	680.386	99.976	10.201
Treatment Prob(F)										1.0000	1.0000	0.0001	0.0001	0.0011

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Trial Comments

1. Protocol: SIU / BGY.
2. DA-A = days after 18"W application. SOLPT = perennial eastern black nightshade. EOS = end of season, at harvest.
3. Soybean was not Roundup Ready.