

Star-of-Bethlehem Control in No-Till Soybean.

Project Code: 03-Dahmer-S70 Location: Marion, IL

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Marion IL 62959 USA
 Trial Status: Established Updated: 5-19-03

Objective:

Determine the effectiveness of soybean herbicides for burndown control of star-of-Bethlehem.

Weed Code	Common Name	Scientific Name
1.	OTGUM star-of-Bethlehem	Ornithogalum umbellatum L.

Crop 1: GLXMA soybean Variety: _____ RR
 Planting Method: Seeded
 Rate: 75 lb/A Depth: 1.0 IN
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 30 FT Reps: 4
 Tillage Type: No-Till Study Design: Randomized complete block
 Previous Crop, Year: _____, 2002

Field Prep./Maintenance: N ____ LB/A, P205 ____ LB/A, K20 ____ LB/A

APPLICATION DESCRIPTION

A

Application Date: 4-18-03
 Time of Day: 9:30
 Application Method: Spray
 Application Timing: 28EPP
 Applic. Placement: BROFOL
 Air Temp., Unit: 53 F
 % Relative Humidity: 85
 Wind Velocity, Unit: 1-2 MPH
 Dew Presence (Y/N): Y
 Soil Temp., Unit: 57 F
 Soil Moisture: ABONOR
 % Cloud Cover: 100

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: GLXMA NA
 Height, Unit: NA NA

WEED STAGE AT EACH APPLICATION

A

Weed 1 Code: OTGUM
 Stage(leaves): 20+
 Height(inches): 6-8
 Density: High

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:

Not harvested.

Star-of-Bethlehem Control in No-Till Soybean.

Project Code: 03-Dahmer-S70 Location: Marion, IL

Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

OTGUM

Control
Percent
5-2-03
14 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	
1	NONTREATED									0
2	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	26	OZ/A	28EPP	A	43
2	AMS	100	DRY	2.0	% W/W	2	% W/W	28EPP	A	
3	SALVO	5	EC	0.5	LB AE/A	12.8	OZ/A	28EPP	A	0
4	GRAMOXONE MAX	3	SL	0.75	LB A/A	2	PT/A	28EPP	A	99
4	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	28EPP	A	
5	HARMONY GT	75	WG	0.0188	LB A/A	0.4	OZ/A	28EPP	A	3
5	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	28EPP	A	
6	HARMONY GT	75	WG	0.028	LB A/A	0.6	OZ/A	28EPP	A	3
6	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	28EPP	A	
7	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	26	OZ/A	28EPP	A	28
7	HARMONY GT	75	WG	0.028	LB A/A	0.6	OZ/A	28EPP	A	
7	AMS	100	DRY	2.0	% W/W	2	% W/W	28EPP	A	
8	SALVO	5	EC	0.5	LB AE/A	12.8	OZ/A	28EPP	A	28
8	HARMONY GT	75	WG	0.028	LB A/A	0.6	OZ/A	28EPP	A	
8	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	28EPP	A	
9	GRAMOXONE MAX	3	SL	0.75	LB A/A	2	PT/A	28EPP	A	99
9	HARMONY GT	75	WG	0.028	LB A/A	0.6	OZ/A	28EPP	A	
9	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	28EPP	A	
10	HARMONY EXTRA	75	WG	0.0188	LB A/A	0.4	OZ/A	28EPP	A	0
10	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	28EPP	A	
11	HARMONY EXTRA	75	WG	0.0281	LB A/A	0.6	OZ/A	28EPP	A	0
11	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	28EPP	A	
12	CLASSIC	25	WG	0.039	LB A/A	2.5	OZ/A	28EPP	A	8
12	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	28EPP	A	
13	FIRSTRATE	84	WG	0.0315	LB A/A	0.6	OZ/A	28EPP	A	0
13	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	28EPP	A	
14	VALOR	51	WG	0.0797	LB A/A	2.5	OZ/A	28EPP	A	96
14	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	28EPP	A	
15	AUTHORITY	75	WG	0.25	LB A/A	5.33	OZ/A	28EPP	A	95
15	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	28EPP	A	

Weed Code OTGUM
 Crop Code
 Rating Data Type Control
 Rating Unit Percent
 Rating Date 5-2-03
 Trt-Eval Interval 14 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	
16	CANOPY XL	56.3	WG			6.8	OZ/A	28EPP	A	95
16	->CLASSIC	25	WG	0.0398	LB A/A			28EPP	A	
16	->AUTHORITY	75	WG	0.1992	LB A/A			28EPP	A	
16	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	28EPP	A	
17	AIM	40	WG	0.016	LB A/A	0.64	OZ/A	28EPP	A	29
17	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	28EPP	A	
LSD (P=.05)										18.4
Replicate F										1.629
Replicate Prob(F)										0.1950
Treatment F										42.812
Treatment Prob(F)										0.0001

Star-of-Bethlehem Control in No-Till Soybean.

Project Code: 03-Dahmer-S70 Location: Marion, IL

Trial Comments

1. Protocol: SIU (BGY).
2. Ratings: WC 14 and 28 DAT, control next spring.
3. At 28 DA-A on 5-16-03, star-of-Bethlehem was not rated due to advanced maturity and senescence in nontreated areas making herbicide evaluations unreliable.
4. DA-A = days after 28EPP application.
5. Study incomplete, plots will be rated for control in spring of 2004.