

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

Project Code: 03-Dahmer-S70 Location: Marion, IL
Investigator: Bryan Young

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Marion IL 62959 USA
Trial Status: Final Updated: 4-8-04

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, K2O ___ 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.

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Weed Code	OTGUM	OTGUM
Crop Code		
Rating Data Type	Control	Control
Rating Unit	Percent	Percent
Rating Date	5-2-03	3-31-04
Trt-Eval Interval	14 DA-A	348 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
2	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	26	OZ/A	28EPP	A	43	8
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	0
4	GRAMOXONE MAX	3	SL	0.75	LB A/A	2	PT/A	28EPP	A	99	56
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	0
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	1
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	15
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	0
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	63
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	1
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	1
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	0
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	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	0
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	0
15	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	28EPP	A		
16	CANOPY XL	56.3	WG			6.8	OZ/A	28EPP	A	95	0
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		

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code		
17	AIM	40	WG	0.016	LB A/A	0.64	OZ/A	28EPP	A	29	0
17	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	28EPP	A		
LSD (P=.05)										18.4	4.7
Replicate F										1.629	0.274
Replicate Prob(F)										0.1950	0.8442
Treatment F										42.812	142.265
Treatment Prob(F)										0.0001	0.0001

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.