

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

Project Code: 06-Evans-S80 Location: Murphysboro, IL  
Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Murphysboro IL 62959 USA  
Trial Status: Final Updated: 4-6-06**Objective:**

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

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

Crop 1:	ZEAMX corn, field	
Planting Method:	Seeded	Depth: 1.5 IN
Row Spacing:	30 IN	

Plot Width, Unit:	10 FT	Plot Length, Unit:	25 FT	Reps:	4
Tillage Type:	No-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	ZEAMX, 2005				

**APPLICATION DESCRIPTION**

A	
Application Date:	3-22-06
Time of Day:	13:00
Application Method:	Spray
Application Timing:	28EPP
Applic. Placement:	BROFOL
Air Temp., Unit:	49 F
% Relative Humidity:	35
Wind Velocity, Unit:	11 MPH
Dew Presence (Y/N):	N
% Cloud Cover:	Sunny

**CROP STAGE AT EACH APPLICATION**

A	
Crop 1 Code, Stage:	ZEAMX NA
Height, Unit:	NA NA

**WEED STAGE AT EACH APPLICATION**

A	
Weed 1 Code:	OTGUM
Stage(leaves):	6-8
Height(inches):	7-9
Density:	High

**APPLICATION EQUIPMENT**

A	
Appl. Equipment:	CO2 sprayer
Operating Pressure:	40 PSI
Nozzle Type:	Flat fan
Nozzle Size:	8003
Boom Length, Unit:	7.5 FT
Spray Volume, Unit:	20 GPA

NOTES:

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Weed Code	OTGUM
Crop Code	
Rating Data Type	Control
Rating Unit	Percent
Rating Date	4-5-06
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	
1	NONTREATED									0
2	ROUNDUP ULTRA MAX	3.7	SL	0.75	lb ae/a	26	oz/a	28EPP	A	2
2	AMS	100	DRY	2.0	% w/w	2	% w/w	28EPP	A	
3	2,4-D LV6	5.6	EC	0.5	lb ae/a	11.4	oz/a	28EPP	A	13
4	GRAMOXONE MAX	3	SL	0.75	lb ai/a	2	pt/a	28EPP	A	97
4	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	28EPP	A	
5	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	28EPP	A	97
5	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	28EPP	A	
6	AATREX	90	WG	2.0	lb ai/a	2.22	lb/a	28EPP	A	3
6	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	28EPP	A	
7	BALANCE PRO	4	SC	0.117	lb ai/a	3.74	oz/a	28EPP	A	0
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	28EPP	A	
8	CALLISTO	4	SC	0.188	lb ai/a	6	oz/a	28EPP	A	0
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	28EPP	A	
8	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	28EPP	A	
9	HORNET	68.5	WG	0.213	lb ai/a	5	oz/a	28EPP	A	1
9	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	28EPP	A	
9	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	28EPP	A	
10	BASIS	75	WG	0.047	lb ai/a	1	oz/a	28EPP	A	0
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	28EPP	A	
10	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	28EPP	A	
11	SENCOR	75	WG	0.25	lb ai/a	5.33	oz/a	28EPP	A	4
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	28EPP	A	
12	HARMONY GT	75	WG	0.028	lb ai/a	0.6	oz/a	28EPP	A	3
12	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	28EPP	A	
13	ROUNDUP ULTRA MAX	3.7	SL	0.75	lb ae/a	26	oz/a	28EPP	A	5
13	HARMONY GT	75	WG	0.028	lb ai/a	0.6	oz/a	28EPP	A	
13	AMS	100	DRY	2.0	% w/w	2	% w/w	28EPP	A	
14	2,4-D LV6	5.6	EC	1.0	lb ae/a	22.9	oz/a	28EPP	A	18
14	HARMONY GT	75	WG	0.028	lb ai/a	0.6	oz/a	28EPP	A	
14	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	28EPP	A	
15	GRAMOXONE MAX	3	SL	0.75	lb ai/a	2	pt/a	28EPP	A	95
15	HARMONY GT	75	WG	0.028	lb ai/a	0.6	oz/a	28EPP	A	
15	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	28EPP	A	
16	ROUNDUP ULTRA MAX	3.7	SL	0.375	lb ae/a	13	oz/a	28EPP	A	16
16	2,4-D LV6	5.6	EC	0.5	lb ae/a	11.4	oz/a	28EPP	A	
16	AMS	100	DRY	2.0	% w/w	2	% w/w	28EPP	A	
17	GRAMOXONE MAX	3	SL	0.75	lb ai/a	2	pt/a	28EPP	A	97
17	2,4-D LV6	5.6	EC	0.5	lb ae/a	11.4	oz/a	28EPP	A	
17	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	28EPP	A	
18	NONTREATED									0
LSD (P=.05)										2.9
Replicate F										1.758
Replicate Prob(F)										0.1669
Treatment F										1521.701
Treatment Prob(F)										0.0001

## Trial Comments

1. Protocol: ISPOB (similar to 02-Dahmer-N100).
2. Ratings: WC 14 DAT and WC 28 DAT if possible.
3. Not harvested.