

Spring Early Preplant Applications of Chlorimuron Combinations.

Project Code: 04-5C-W30 Location: Belleville Research Center
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 8-31-04

Objective:

Assess replacements for Canopy XL plus Express in spring early preplant applications.

Weed Code	Common Name	Scientific Name
1. LAMAM	henbit	Lamium amplexicaule L.
2. CERVU	chickweed, mouseear	Cerastium vulgatum L.
3. CAPBP	shepherdspurse	Capsella bursa-pastoris (L.) Medicus
4. VERPG	speedwell, purslane	Veronica peregrina L.
5. ALOCA	foxtail, Carolina	Alopecurus carolinianus Walt.

Crop 1: GLXMA soybean Variety: P94M70 RR
 Planting Method: Seeded Planting Date: 5-13-04
 Rate: 75 lb/A Depth: 1.0 IN
 Row Spacing: 15 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 30 FT Reps: 3
 Tillage Type: No-Till Study Design: Randomized complete block
 Previous Crop, Year: ZEAMX, 2003

Field Prep./Maintenance: N 0 LB/A, P2O5 50 LB/A, K2O 200 LB/A

Soil Name: Weir % OM: 1.5 pH: 6.5 CEC: 7
 Texture: Silt loam Fert. Level: P1: 74 LB/A, K: 243 LB/A

APPLICATION DESCRIPTION

A
 Application Date: 4-14-04
 Time of Day: 11:00
 Application Method: Spray
 Application Timing: 30EPP
 Applic. Placement: BROFOL
 Air Temp., Unit: 65 F
 % Relative Humidity: 28
 Wind Velocity, Unit: 0 MPH
 Soil Moisture: NORMAL

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: LAMAM
 Stage(leaves): 10+
 Height(inches): 4-6
 Density: Medium
 Weed 2 Code: CERVU
 Stage(leaves): 10+
 Height(inches): 2-4
 Density: Medium
 Weed 3 Code: CAPBP
 Stage(leaves): 10+
 Height(inches): 4-12
 Density: Low
 Weed 4 Code: VERPG
 Stage(leaves): 10+
 Height(inches): 4-6
 Density: Medium

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	LAMAM	LAMAM	CERVU	CERVU	CAPBP	CAPBP	VERPG	VERPG	ALOCA	ALOCA
Crop Code										
Rating Data Type	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	4-28-04	5-12-04	4-28-04	5-12-04	4-28-04	5-12-04	4-28-04	5-12-04	4-28-04	5-12-04
Trt-Eval Interval	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent
1	CLASSIC	25	WG	0.0312	LB A/A	2	OZ/A	30EPP	A	98	98	98	98	98	98	98	98	50	50
1	EXPRESS	75	WG	0.0094	LB A/A	0.2	OZ/A	30EPP	A										
1	2,4-D LV4	3.8	EC	0.5	LB AE/A	1.05	PT/A	30EPP	A										
1	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	30EPP	A										
2	CLASSIC	25	WG	0.0264	LB A/A	1.7	OZ/A	30EPP	A	98	98	98	98	98	98	98	98	50	50
2	AUTHORITY	75	WG	0.132	LB A/A	2.8	OZ/A	30EPP	A										
2	EXPRESS	75	WG	0.0094	LB A/A	0.2	OZ/A	30EPP	A										
2	2,4-D LV4	3.8	EC	0.5	LB AE/A	1.05	PT/A	30EPP	A										
2	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	30EPP	A										
3	CLASSIC	25	WG	0.0234	LB A/A	1.5	OZ/A	30EPP	A	98	98	98	98	98	98	98	98	50	50
3	EXPRESS	75	WG	0.00706	LB A/A	0.15	OZ/A	30EPP	A										
3	2,4-D LV4	3.8	EC	0.5	LB AE/A	1.05	PT/A	30EPP	A										
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	30EPP	A										
4	CLASSIC	25	WG	0.0206	LB A/A	1.32	OZ/A	30EPP	A	98	98	98	98	98	98	98	98	50	50
4	AUTHORITY	75	WG	0.102	LB A/A	2.19	OZ/A	30EPP	A										
4	EXPRESS	75	WG	0.00706	LB A/A	0.15	OZ/A	30EPP	A										
4	2,4-D LV4	3.8	EC	0.5	LB AE/A	1.05	PT/A	30EPP	A										
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	30EPP	A										
5	CLASSIC	25	WG	0.0156	LB A/A	1	OZ/A	30EPP	A	98	98	98	98	98	98	98	98	50	50
5	EXPRESS	75	WG	0.0047	LB A/A	0.1	OZ/A	30EPP	A										
5	2,4-D LV4	3.8	EC	0.5	LB AE/A	1.05	PT/A	30EPP	A										
5	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	30EPP	A										
6	CLASSIC	25	WG	0.0147	LB A/A	0.94	OZ/A	30EPP	A	98	98	98	98	98	98	98	98	50	50
6	AUTHORITY	75	WG	0.073	LB A/A	1.56	OZ/A	30EPP	A										
6	EXPRESS	75	WG	0.0047	LB A/A	0.1	OZ/A	30EPP	A										
6	2,4-D LV4	3.8	EC	0.5	LB AE/A	1.05	PT/A	30EPP	A										
6	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	30EPP	A										
7	CLASSIC	25	WG	0.047	LB A/A	3	OZ/A	30EPP	A	98	98	98	98	98	98	98	98	50	50
7	EXPRESS	75	WG	0.014	LB A/A	0.3	OZ/A	30EPP	A										
7	2,4-D LV4	3.8	EC	0.5	LB AE/A	1.05	PT/A	30EPP	A										
7	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	30EPP	A										
8	NONTREATED									0	0	0	0	0	0	0	0	0	0
LSD (P=.05)										0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Replicate F										0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F										0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Trial Comments

1. Protocol: DuPont.
2. Ratings: WC 14, 28 and 42 DAT.
3. Blanket application of glyphosate (0.75 lbae/A) to entire study, 10 ft wide, at 3 WAP, was applied on 6-3-04.
4. Ratings planned for 42 DAT were not possible due to standing water.
5. DA-A = Days after 30EPP application.
6. At 14 and 28 DA-A, 50% control of ALOCA indicates height reduction compared to nontreated, but not control.