

Broadleaf Weed Control in Pastures - 2007.

Project Code: 07-Ironweed Location: Murphysboro, IL  
Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Murphysboro IL 62966 USA  
Trial Status: Final Updated: 1-24-08

Objective:

To evaluate a range of DPX-KJM44 rates in non-crop sites for control of ironweed.

Weed Code Common Name Scientific Name  
1. VENAL ironweed, tall Vernonia altissima Nutt.

Crop 1: FESSS Fescue species  
Planting Method: Established

Plot Width, Unit: 6.67 FT Plot Length, Unit: 15 FT Reps: 4  
Tillage Type: No-Till Study Design: Randomized complete block  
Previous Crop, Year: FESSS, 2006  
Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 0 LB/A

Soil Name: Alvin % OM: 1.6 pH: 5.2 CEC: 6.7  
Texture: Very fine sandy loam Fert. Level: P1: 56 LB/A, K: 143 LB/A

APPLICATION DESCRIPTION

A  
Application Date: 6-24-07  
Time of Day: 9:00  
Application Method: Spray  
Application Timing: POST  
Applic. Placement: BROFOL  
Air Temp., Unit: 77 F  
% Relative Humidity: 79  
Wind Velocity, Unit: 0-2 MPH  
Dew Presence (Y/N): Y  
Soil Temp., Unit: 73 F  
Soil Moisture: BELNOR  
% Cloud Cover: 50

CROP STAGE AT EACH APPLICATION

A  
Crop 1 Code, Stage: FESSS Mature  
Height, Unit: 30-40 IN

WEED STAGE AT EACH APPLICATION

A  
Weed 1 Code: VENAL  
Stage(leaves): 12-24  
Height(inches): 12-40  
Density: Medium

APPLICATION EQUIPMENT

A  
Appl. Equipment: CO2 Sprayer  
Operating Pressure: 35 PSI  
Nozzle Type: Flat Fan  
Nozzle Size: XR 8002  
Boom Length, Unit: 6.67 FT  
Spray Volume, Unit: 15 GPA

NOTES:

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Weed Code	VENAL	VENAL	FESSS	FESSS
Crop Code	Control	Control	Injury	Injury
Rating Data Type	Percent	Percent	Percent	Percent
Rating Unit	7-24-07	8-29-07	7-24-07	8-29-07
Rating Date	30 DA-A	66 DA-A	30 DA-A	66 DA-A
Trt-Eval Interval				

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
1	NONTREATED									0 d	0 c	0 c	0 b
2	DPX-KJM44	25	WP	0.0312	lb ai/a	2	oz/a	POST	A	64 c	97 a	5 b	0 b
2	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	POST	A				
3	DPX-KJM44	25	WP	0.0625	lb ai/a	4	oz/a	POST	A	74 b	98 a	8 b	0 b
3	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	POST	A				
4	DPX-KJM44	25	WP	0.125	lb ai/a	8	oz/a	POST	A	84 a	99 a	6 b	0 b
4	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	POST	A				
5	DPX-KJM44	25	WP	0.156	lb ai/a	10	oz/a	POST	A	84 a	98 a	7 b	0 b
5	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	POST	A				
6	CIMARRON MAX (MULTI-PACK)							POST	A	70 bc	86 b	12 a	6 a
6	->CIMARRON MAX PART A	60	WG	0.0187	lb ai/a	0.5	oz/a	POST	A				
6	->CIMARRON MAX PART B	3.87	EC	0.97	lb ai/a	2	pt/a	POST	A				
6	PRIME OIL	100	LIQ	1.0	% v/v	1	% v/v	POST	A				
LSD (P=.05)										9.7	4.3	3.1	1.5
Replicate F										1.284	1.248	1.936	1.000
Replicate Prob(F)										0.3160	0.3274	0.1672	0.4199
Treatment F										97.176	754.970	14.223	25.000
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Trial Comments

1. Protocol: DuPont.
2. DA-A = Days after POST application. FESSS = Fescue species.
3. Ratings incomplete, additional ratings to be made 6 and 12 months after application.