

Pasture

12-06-05 (04-OS-CIMARRON)

Southern Illinois University

Cimarron Max Evaluation in Pasture.

Project Code: 04-OS-Cimarron 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: 09-06-05

Objective:

Evaluate Cimarron Max for annual and perennial broadleaf weed control and grass response in improved pastures (introduced and native grass species) and rangeland.

Weed Code	Common Name	Scientific Name
1.	VENAL ironweed, tall	Vernonia altissima Nutt.
2.	SOOMS goldenrod, Missouri	Solidago missouriensis Nutt.

Crop 1: GGGGG grasses Variety: Fescue
Planting Method: Established

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

APPLICATION DESCRIPTION

A
Application Date: 05-15-04
Time of Day: 15:00
Application Method: Spray
Application Timing: POST
Applic. Placement: BROFOL
Air Temp., Unit: 62 F
% Relative Humidity: 55
Wind Velocity, Unit: 2 MPH
Dew Presence (Y/N): N
Soil Moisture: NORMAL
% Cloud Cover: 100

CROP STAGE AT EACH APPLICATION

A
Crop 1 Code, Stage: GGGGG FK10.1
Height, Unit: 36 IN

WEED STAGE AT EACH APPLICATION

A
Weed 1 Code: VENAL
Stage (leaves): 15-40
Height (inches): 12-30
Density: Medium
Weed 2 Code: SOOMS
Stage (leaves): 15-40
Height (inches): 12-30
Density: Low

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: 15 GPA

NOTES:

Crop stage at application is Feeks stage 10.1 or heading.

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

GGGGG GGGGG GGGGG GGGGG
 Injury Injury Injury Injury
 Percent Percent Percent Percent
 05-22-04 05-29-04 06-12-04 06-28-05
 7 DA-A 14 DA-A 28 DA-A 409 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
1	CIMARRON MAX (MULTI-PACK)									7	10	3	0
1	=>CIMARRON MAX PART A	60	WG	0.0094	lb ai/a	0.25	oz/a	POST	A				
1	=>CIMARRON MAX PART B	3.87	EC	0.484	lb ai/a	1.0	pt/a	POST	A				
1	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	POST	A				
2	CIMARRON MAX (MULTI-PACK)									12	17	10	0
2	=>CIMARRON MAX PART A	60	WG	0.0187	lb ai/a	0.5	oz/a	POST	A				
2	=>CIMARRON MAX PART B	3.87	EC	0.97	lb ai/a	2.0	pt/a	POST	A				
2	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	POST	A				
3	CIMARRON MAX (MULTI-PACK)									14	15	17	0
3	=>CIMARRON MAX PART A	60	WG	0.0375	lb ai/a	1.0	oz/a	POST	A				
3	=>CIMARRON MAX PART B	3.87	EC	1.93	lb ai/a	4.0	pt/a	POST	A				
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	POST	A				
4	CIMARRON MAX (MULTI-PACK)									6	7	7	0
4	=>CIMARRON MAX PART A	60	WG	0.0094	lb ai/a	0.25	oz/a	POST	A				
4	=>CIMARRON MAX PART B	3.87	EC	0.484	lb ai/a	1.0	pt/a	POST	A				
4	2,4-D LV6	5.6	EC	0.5	lb ai/a	0.714	pt/a	POST	A				
4	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	POST	A				
5	CIMARRON MAX (MULTI-PACK)									7	9	12	0
5	=>CIMARRON MAX PART A	60	WG	0.0187	lb ai/a	0.5	oz/a	POST	A				
5	=>CIMARRON MAX PART B	3.87	EC	0.97	lb ai/a	2.0	pt/a	POST	A				
5	2,4-D LV6	5.6	EC	0.5	lb ai/a	0.714	pt/a	POST	A				
5	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	POST	A				
6	CIMARRON MAX (MULTI-PACK)									7	8	10	0
6	=>CIMARRON MAX PART A	60	WG	0.0375	lb ai/a	1.0	oz/a	POST	A				
6	=>CIMARRON MAX PART B	3.87	EC	1.93	lb ai/a	4.0	pt/a	POST	A				
6	2,4-D LV6	5.6	EC	0.5	lb ai/a	0.714	pt/a	POST	A				
6	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	POST	A				
7	NONTREATED									0	0	0	0
LSD (P=.05)										2.8	3.1	5.3	0.0
Replicate F										4.299	1.714	0.459	0.000
Replicate Prob(F)										0.0391	0.2214	0.6428	1.0000
Treatment F										24.809	28.673	10.404	0.000
Treatment Prob(F)										0.0001	0.0001	0.0004	1.0000

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Weed Code				VENAL	VENAL	VENAL	VENAL	SOOMS	
Crop Code				Control	Control	Control	Control	Control	
Rating Data Type				Percent	Percent	Percent	Percent	Percent	
Rating Unit				05-29-04	06-12-04	07-10-04	06-28-05	07-10-04	
Rating Date				14 DA-A	28 DA-A	56 DA-A	409 DA-A	56 DA-A	
Trt-Eval Interval									
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Unit	Prod Rate	Grow Stg	Appl Code	
1	CIMARRON MAX (MULTI-PACK)								
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2	CIMARRON MAX (MULTI-PACK)								
2	=>CIMARRON MAX PART A	60	WG	0.0187 lb ai/a	0.5 oz/a		POST	A	
2	=>CIMARRON MAX PART B	3.87	EC	0.97 lb ai/a	2.0 pt/a		POST	A	
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6	2,4-D LV6	5.6	EC	0.5 lb ai/a	0.714 pt/a		POST	A	
6	PRIME OIL COC	100	LIQ	1.0 % v/v	1 % v/v		POST	A	
7	NONTREATED								
LSD (P=.05)					9.4	9.5	25.7	24.3	0.0
Replicate F					1.200	1.292	0.967	6.792	0.000
Replicate Prob(F)					0.3349	0.3104	0.4081	0.0106	1.0000
Treatment F					58.686	71.167	11.367	14.505	0.000
Treatment Prob(F)					0.0001	0.0001	0.0002	0.0001	1.0000

Trial Comments

1. Protocol: DuPont.
2. Ratings: CI 7, 14 and 28 DAT; WC 14, 28 and 56 DAT.
3. Evaluate top growth activity on perennial species at 14, 28 and 56 DAT as percent defoliation and one rating the following season as percent control.
4. Mixing:
 For =>CIMARRON MAX PART A use ALLY 60 WG.
 For =>CIMARRON MAX PART B use RANGE STAR 3.87 EC.
5. DA-A = Days after POST application.
6. VENAL (tall ironweed) density on 5-15-04, at application, was 4 per 0.25 square meter.
7. SOOMS (Missouri goldenrod) population was low and, thus, was not detected until the 56 DA-A rating.
 In addition the goldenrod plant size at application was predicted to be similar to the ironweed.