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: 9-2-04

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 Planting Date: pasture
Rate: NA NA Depth: NA NA
Row Spacing: NA NA
Soil Moisture: NORMAL

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:	5-15-04
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.

Southern Illinois University

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
Weed Code													VENAL	VENAL	VENAL	SOOMS
Crop Code										GGGGG	GGGGG	GGGGG				
Rating Data Type										Injury	Injury	Injury	Control	Control	Control	Control
Rating Unit										Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date										5-22-04	5-29-04	6-12-04	5-29-04	6-12-04	7-10-04	7-10-04
Trt-Eval Interval										7 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	56 DA-A	56 DA-A
1	CIMARRON MAX (MULTI-PACK)									7	10	3	62	67	58	99
1	=>CIMARRON MAX PART A	60	WG	0.0094	LB A/A	0.25	OZ/A	POST	A							
1	=>CIMARRON MAX PART B	3.87	EC	0.484	LB A/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	63	72	65	99
2	=>CIMARRON MAX PART A	60	WG	0.0187	LB A/A	0.5	OZ/A	POST	A							
2	=>CIMARRON MAX PART B	3.87	EC	0.97	LB A/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	55	62	67	99
3	=>CIMARRON MAX PART A	60	WG	0.0375	LB A/A	1.0	OZ/A	POST	A							
3	=>CIMARRON MAX PART B	3.87	EC	1.93	LB A/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	60	65	70	99
4	=>CIMARRON MAX PART A	60	WG	0.0094	LB A/A	0.25	OZ/A	POST	A							
4	=>CIMARRON MAX PART B	3.87	EC	0.484	LB A/A	1.0	PT/A	POST	A							
4	2,4-D LV6	5.6	EC	0.5	LB A/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	62	70	85	99
5	=>CIMARRON MAX PART A	60	WG	0.0187	LB A/A	0.5	OZ/A	POST	A							
5	=>CIMARRON MAX PART B	3.87	EC	0.97	LB A/A	2.0	PT/A	POST	A							
5	2,4-D LV6	5.6	EC	0.5	LB A/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	65	73	78	99
6	=>CIMARRON MAX PART A	60	WG	0.0375	LB A/A	1.0	OZ/A	POST	A							
6	=>CIMARRON MAX PART B	3.87	EC	1.93	LB A/A	4.0	PT/A	POST	A							
6	2,4-D LV6	5.6	EC	0.5	LB A/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	0	0	0
LSD (P=.05)										2.8	3.1	5.3	9.4	9.5	25.7	0.0
Replicate F										4.299	1.714	0.459	1.200	1.292	0.967	0.000
Replicate Prob(F)										0.0391	0.2214	0.6428	0.3349	0.3104	0.4081	1.0000
Treatment F										24.809	28.673	10.404	58.686	71.167	11.367	0.000
Treatment Prob(F)										0.0001	0.0001	0.0004	0.0001	0.0001	0.0002	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.