



Remedy vs. Remedy Ultra

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Summary

This project is designed to compare the traditional triclopyr formulation, trade named Remedy, to a new formulation called Remedy Ultra, when applied as an individual plant leaf spray or stem spray to mesquite.

One year after treatment there were no significant differences between Remedy as compared to Remedy Ultra when applied as a leaf spray or a stem spray to control mesquite.

Problem/Introduction

Triclopyr is one of the most commonly used herbicides on rangeland. Sold predominately in the past under the trade name Remedy, this herbicide when mixed with diesel and applied as a low-volume stem spray will provide excellent control of most woody plant species. Remedy is also mixed with the herbicide Reclaim and applied as a leaf spray to mesquite.

The Remedy formulation, manufactured by Dow AgroSciences, mixes the active ingredient triclopyr with petroleum based carriers. Dow AgroSciences is replacing the Remedy formulation with a new formulation called Remedy Ultra. Remedy Ultra will contain the same active ingredient in the same quantity but will replace the petroleum based carriers with vegetable oil carriers.

Objectives

The objective of this herbicide trial is to compare the efficacy of Remedy vs. Remedy Ultra when applied as either a low-volume stem spray or as an individual plant leaf spray to mesquite.

Materials/Methods

The herbicide trials were established at 4 locations during the summer of 2007 (Table 1). Treatments are defined in Table 2.

Table 1. Location and date established for each replication.

County	Ranch	Date Established
Lampasas	Spilley Farmer	7/30/2007
McCulloch	Phillips	7/23/2007
Mason	Lex Lehmborg	8/8/2007
Brown	Jerry Pittman	9/9/2007

Table 2. Treatments applied.

Rate/Herbicide	Application Method	County			
		Lampasas	McCulloch	Mason	Brown
1% Remedy	Leaf Spray			X	X
1% Remedy Ultra				X	X
15% Remedy	Stem Spray	X	X	X	X
15% Remedy Ultra		X	X	X	X
½% Remedy + ½% Reclaim	Leaf Spray	X	X	X	X
½% Remedy Ultra + ½% Reclaim		X	X	X	X

All individual plant leaf spray treatments were applied using a 4-wheel ATV and spray wands tipped with X-8 adjustable conejet nozzles. Herbicides were mixed with water. Surfactant was added at a concentration of ¼%. Hi-Light Blue Dye was added to each treatment at a rate of 1/3 oz/gal of spray mix. Leaves of the target plant were sprayed to wet but not to the point of dripping.

Brush Buster stem spray applications were made using backpack sprayers with spray wands tipped with X-1 adjustable conejet nozzles. All mesquite basal stems were sprayed to lightly wet from ground-line to a height of 12 inches, all the way around.

Results/Discussion/Economic Impact

One year following treatment there were no significant differences between the average control obtained with Remedy as compared to Remedy Ultra, for a specific treatment method (Table 3). As expected, neither Remedy Ultra nor Remedy alone provided acceptable rootkill of mesquite.

When mixed with Reclaim, and applied as a leaf spray, control averaged 39% to 50%, which would be considered less than expected. The year 2007 was characterized by extremely high rainfall during the spring and early summer which caused mesquite to continually initiate new growth. Under normal situations mesquite should not be leaf sprayed (IPT or broadcast) during these conditions.

Stem sprays averaged between 66% and 67% control, but again with no significant differences between Remedy as compared to Remedy Ultra.

Table 3. Percent apparent mortality of mesquite one year after treatment. There were no significant differences between means comparing Remedy to Remedy Ultra at the 95% confidence level.

Spray Method	Herbicide/ Rate	County				Average
		Lampasas	McCulloch	Mason	Brown	
Leaf	Remedy 1%			0	0	0
	Remedy Ultra 1%			0	0	0
	Remedy + Reclaim 1/2% + 1/2%	52	100	44	4	50
	Remedy Ultra + Reclaim 1/2% + 1/2%	48	56	41	9	39
Stem	Remedy 15%	81	64	55	67	67
	Remedy Ultra 15%	85	67	60	51	66

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