



Result Demonstration Report

2013

A Comparison of Treatments Containing Sendero Herbicide for Control of Western Honey Mesquite

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SUMMARY

Mesquite is native to Texas, where there are three major species and four varieties. Honey mesquite and western honey mesquite tend to be the most common varieties in our region. Branches and trunks from large plants have practical uses such as fence posts, firewood and furniture, but high densities of small plants are generally considered undesirable. Dense brush competes with forage plants for water, light and nutrients and may also discourage livestock from using pastures.

OBJECTIVE

Sendero herbicide was introduced in 2012 as a single-container product for foliar application on mesquite. The active ingredients are aminopyralid and clopyralid.

The objective of this applied research demonstration is to compare multiple treatments containing Sendero with different surfactants and also with Remedy Ultra to the standard recommendation for foliar mesquite spray containing Remedy Ultra plus Reclaim for control of western honey mesquite.

MATERIALS AND METHODS

All applications were made with a backpack sprayer and wand fitted with ConeJetX8 adjustable nozzle on August 27, 2013 at Phillips Ranch, Glasscock County. Total spray volume for all treatments was 3 gallons. Each treatment was replicated three times (Table 1). Many of the mesquite plants we treated were young and small.

RESULTS & DISCUSSION

This demonstration was evaluated on November 5, 2013, about 60 days after treatment (DAT). Apparent mortality within each treatment was fairly consistent except for Treatment 6, where one replication showed only 40% apparent mortality (Table 1). Results for treatments 5 and 7 were consistently poor. Some of the leaves in treatments 1,2,3,4,6, and 8 were still attached, but they were dead and brown.

Table 1. Herbicide treatments, number of plants treated, and apparent mortality.

Treatment Number	Treatment Name	Rate % v/v	Replications					
			A		B		C	
			# Treated	Apparent Mortality (%)	# Treated	Apparent Mortality (%)	# Treated	Apparent Mortality (%)
1	Sendero	0.75	7	100	17	100	19	100
	Dyne-amic	0.5						
2	Sendero	1	37	100	24	100	13	100
	Dyne-amic	0.5						
3	Sendero	1.5	21	100	20	100	16	100
	Dyne-amic	0.5						
4	Sendero	1	11	100	13	100	20	100
	MSO	1						
5	Sendero	0.75	17	40	17	40	16	40
	Remedy Ultra	0.5						
	Dyne-amic	0.5						
6	Sendero	1	9	90	14	50	10	90
	Remedy Ultra	0.5						
	Dyne-amic	0.5						
7	Sendero	1.5	21	40	20	40	17	40
	Remedy Ultra	0.25						
	Dyne-amic	0.5						
8	Remedy Ultra	0.5	34	90	42	90	6	90
	Reclaim	0.5						
	Dyne-amic	0.5						
9	UNTREATED	0	0	0	0	0	0	0

Another evaluation will be conducted in 2014 and results will be submitted in a final report.

ACKNOWLEDGEMENTS

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