



**Comparison of Herbicides for Leaf-spray IPT
Mesquite Management Project
Final Report**

Texas A&M AgriLife Extension Service

Bexar, Comal, and Medina Counties

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Summary

Combinations of herbicides for leaf-spray individual plant treatment were applied at three locations for mesquite management. One new herbicide combination provided similar two-year plant-kill to the standard treatment of Remedy Ultra + Reclaim.

Objective

The purpose of this project was to test efficacy of several new herbicide combinations for mesquite management.

Materials and Methods

Treatments were established in Bexar, Comal, and Medina counties during August, 2010. Treatments were applied with a backpack sprayer equipped with a Conejet 5500 X-8 nozzle. Dyne-Amic surfactant and Hi-Lite blue dye were included in all treatments.

Results and Discussion

Average two-year apparent plant-mortality (Table 1) was highest numerically for treatments #3, the highest rate of Milestone + Reclaim and for treatment #8, Remedy Ultra + Reclaim. Treatment #3 was the most consistent across the three sites.

Table 1. Mesquite treatments and two-year apparent plant-mortality for each location and the average across locations.

Treatment	Materials	One-year Apparent Plant-Mortality, %			
		Bexar	Comal	Medina	Average
1	Milestone + Reclaim	100	37	13	50
2	Milestone + Reclaim	68	42	30	47
3	Milestone + Reclaim	77	56	63	65
4	GF-2744	73	15	27	38
5	GF-2744	5	25	32	21
6	GF-2744	88	20	37	48
7	GF-2744	90	38	26	51
8	Remedy Ultra + Reclaim	88	57	58	68

Conclusions

Treatment #3, the highest rate of Milestone + Reclaim provided similar two-year plant-kill to the standard Remedy Ultra + Reclaim treatment. Treatment #3 was more consistent (8.7 standard deviation) than the standard treatment (14.2 standard deviation).

Acknowledgements

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