

# **Weed Control Demonstration**

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## **SUMMARY**

The herbicides 2,4-D amine, Grazon P+D and Tordon 22K, at two rates each were applied on April 10, 2003 to rangeland on the Luke Jones Ranch. By the end of the growing season forage standing crop in treated areas ranged from 1331 lbs/ac to 2420 lbs/ac, while forage standing crop in the non-treated area was 1271 lbs/ac.

## **PROBLEM/INTRODUCTION**

Broadleaf plants, or weeds, may be desirable or undesirable depending on the rancher's objective. Some weeds are valuable forage for sheep, goats and wildlife. However, weeds can reach densities that significantly reduce production of perennial grasses. Some broadleaf weeds are toxic to livestock. A successful weed control program requires owners/managers to know their plants, select appropriate control methods when needed and apply these methods at appropriate rates and at the proper time using well maintained equipment. A cornerstone to satisfactory results is early identification of weed problems and prompt, accurate treatment.

## **OBJECTIVES**

The objective of this demonstration is to document costs and forage response following use of several herbicides for general weed control.

## **MATERIALS/METHODS**

This demonstration was established on April 10, 2003 on the Luke Jones Ranch in Lampasas county. A 4-wheel ATV equipped with a "Boomjet" nozzle was used to apply 6 herbicide treatments for weed control. These treatments included 2, 4-D amine at a rate of 1 qt/ac and 1 pt/ac, Grazon P+D at 1 qt/ac and 1 pt/ac, and Tordon 22K at 1 pt/ac and 1/2 pt/ac. All herbicides were mixed with water.

surfactant was added at a concentration of 0.25% to the spray mixture. Herbicides were applied at a total volume of 13.2. gpa.

## RESULTS/DISCUSSION/ECONOMIC IMPACT

The following table shows cost and end of season forage standing crop for each treatment.

Herbicide	Rate	Cost/Ac	Standing Crop
2, 4-D amine	1 qt/ac	\$4.50	1331 lbs/ac
	1 pt/ac	\$2.25	1452 lbs/ac
Grazon P+D	1 qt/ac	\$6.50/ac	1573 lbs/ac
	1 pt/ac	\$3.25/ac	1815 lbs/ac
Tordon 22K	1 pt/ac	\$11.00/ac	2299 lbs/ac
	1/2 pt/ac	\$5.50/ac	2420 lbs/ac
Control			1271 lbs/ac

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