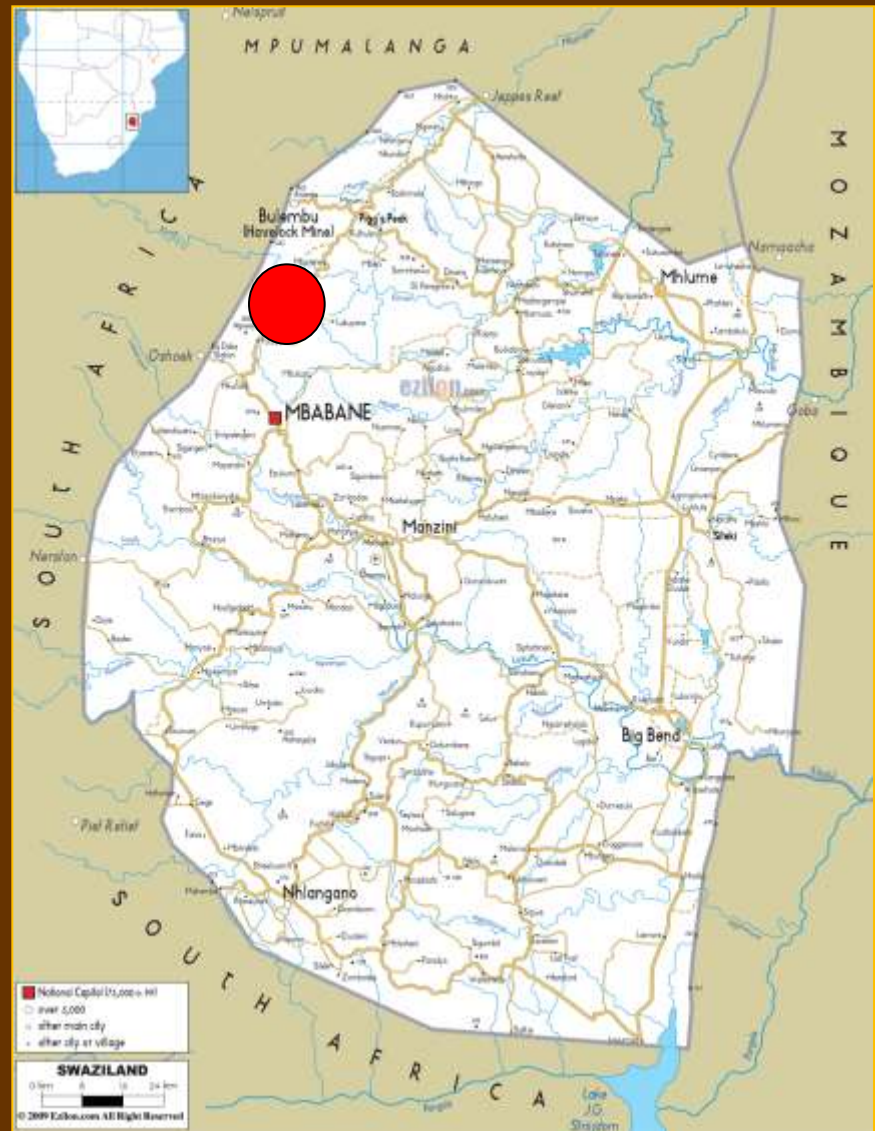


The effectiveness  
of three techniques for controlling  
*Lantana camara* in Swaziland

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# INTRODUCTION



# AIM

The aim of this study was to find the most efficient and cost effective treatment option or combination of options to control *Lantana camara*.

# Methods

- Fourteen sample plots (100 m<sup>2</sup>)
- Determined density of *Lantana* spp. before and after treatments
- Three treatments
  - Cut stump
  - Foliar application
  - Hand pulling
- Compared treatment costs, time taken and effectiveness (regrowth)

# RESULTS

## Per hectare (ha) treatment information

<u>Treatments</u>	<u>Time taken*</u>	<u>Stems treated</u>	<u>Regrowth</u>	<u>New growth</u>
CS	22h21	10,925	17	2,550
FS	75h18	75,767	0	500
HP	975h00	925	0	633

*\* Based on average values for a single labourer*

# RESULTS

## Per hectare (ha) costs

Treatments	Labour*			Herbicide			H&R oil			Dye			Petrol			2 stroke oil			Combined
	hrs	R/hr	Total R	l/ha	R/l	Total R	l/ha	R/l	Total R	l/ha	R/l	Total R	l/ha	R/l	Total R	l/ha	R/l	Total R	
CS	22h21	3.75	83.81	0.4400	192.59	84.74	0.0020	31.45	0.06	0.0002	143.00	0.03	3.1300	11.40	35.68	0.0200	54.00	1.08	<b>205.40</b>
FS	75h18	3.75	282.38	1.8000	192.59	346.66	0.7070	31.45	22.24	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	<b>651.28</b>
HP	975h00	3.75	3,656.25	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	<b>3,656.25</b>

\* Based on average values for a single labourer

# DISCUSSION

- *Cut stump*
  - *Least amount of time*
  - *Less stems treated than foliar*
  - *Regrowth the highest*
  - *Least expensive*
- *Foliar application*
  - *Longer than cut stump*
  - *Highest number of stems treated*
  - *Lowest regrowth*
- *Hand pulling*
  - *Lowest number of stems*
  - *Most expensive*
  - *No regrowth*



# CONCLUSION

- Overall foliar spraying proved to be the most efficient and cost effective treatment option for controlling





