





EFFECT OF BUCK SELECTION ON COMMUNITY BASED GOAT BREEDING PROGRAMME ON PERFORMANCE OF PROGENY UNDER FARMERS MANAGEMENT IN MALAWI

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INTRODUCTION

CBBP is a breeding programme that aims to develop, improve and preserve indigenous livestock with involvement of communities

The aim of the study was to evaluate the effect of buck selection on the performance of the progeny(offspring)



The study used three approaches

- 1.Evaluated performance from the records collected during project period
- 2. Conducted household survey of communities that participated in CBBP.
- 3. Monitored the offspring that were born from selected bucks





Figure 2. Focus group discussions and monitoring of offspring through measurements





Figure 1. Goat selection process

CONCLUSION

- A trend of growth and body weight improvement in kids as a result of selection process gives farmers more economic importance of keeping goats
- Improvement in genetic and phenotypic parameters shows the importance of the breeding process

RESULTS

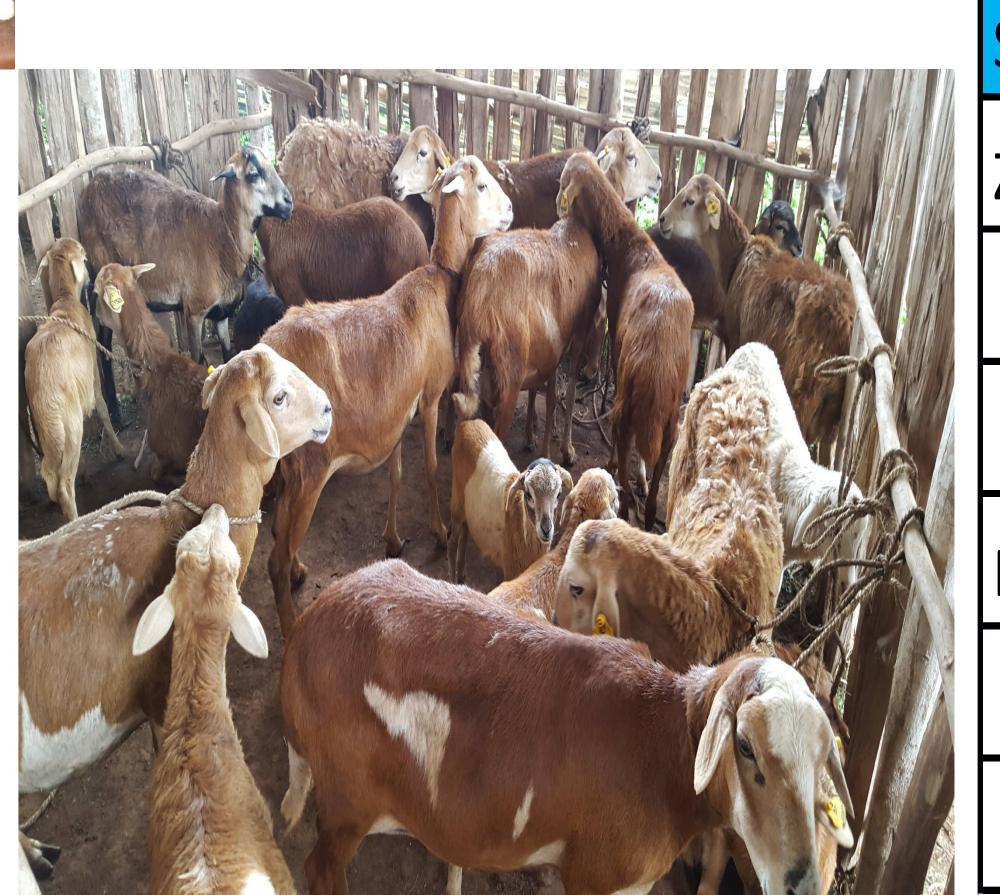
- \$ 94.4% of hh in the project areas used the selected bucks
- Kids born from the selected bucks had superior body weight 15kg versus 11kg preweaning (p<0.001)</p>



Figure 3. Kids born from selected bucks

- There was positive phenotypic and genetic correlations between growth traits 0.1-0.8 (p<0.001)</p>
- Heritability ranged from low to medium (0.15-0.30)

Table1 .Heritabilty of growth traits



Section	Traits	Sire	h ²
Zombwe	Birth wt	0.03	0.17±0.06
	2 months wt	0.13	0.19±0.12
	4 months wt	1.15	0.20±0.09
Bande	Birth wt	0.03	0.19±0.04
	2 months wt	0.14	0.21±0.13
	4 months wt	1.21	0.25±0.25