COMPARING BEGAIT, HARARGHE HIGHLAND AND SOMALI GOAT BREEDS PRODUCTION AND PRODUCTIVITY FOR BETTER UTILIZATION

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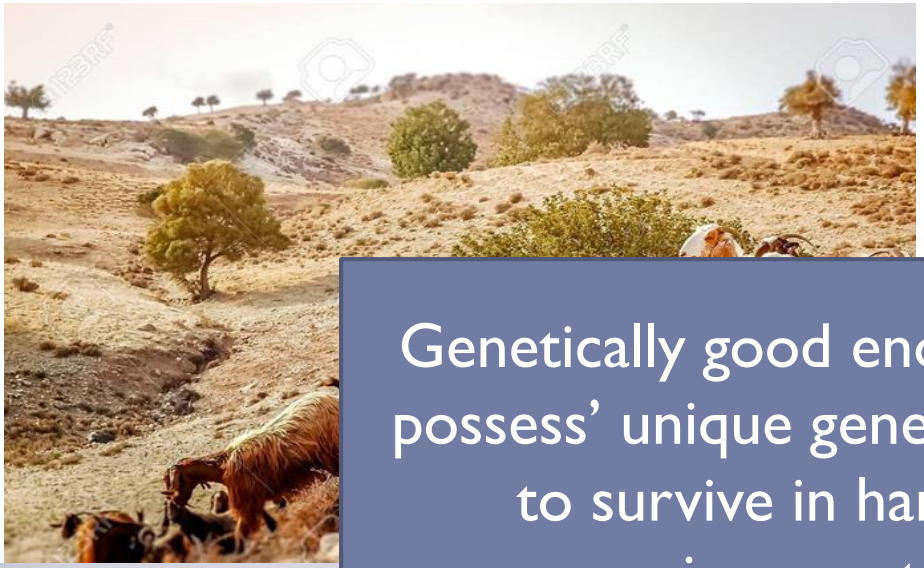
OUT LINE OF PRESENTATION

- Introduction and objectives
- Material and method
- Result and discussion
- Conclusion
- Recommendation
- Research Gap

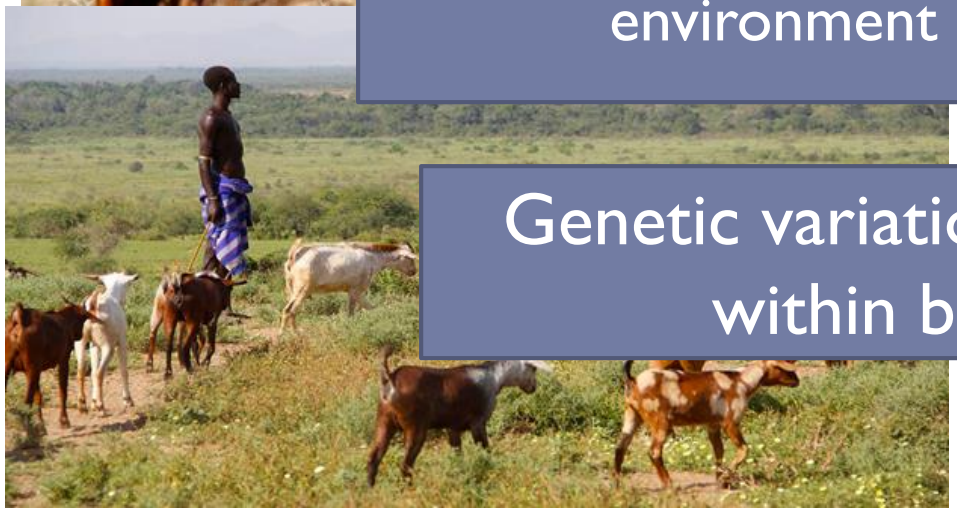
INTRODUCTION

- Ethiopia has good goat production potential and the product of goat like

indigenous goat breeds constitute over 99.77%



Genetically good enough to possess' unique genetic trait to survive in harsh environment



Genetic variation among and within breeds

- Extensive production system
- Low quality and quantity food
- quate veterinary ce
- urrent drought rrence
- Misuse of breed are factor of low of local breeds

- Genetic/performance variation is a base for a selection and to bring genetic improvement.

- To do so documenting their productivity and production performance in different production system is very important for maximizing the good trait or breeds for economical utilizations.

- Thee performance differences need to be compiled

- Better performed breed need to be promoted

- Therefore, the purpose of this study was to compile information on the economically important traits of Begait, Somali, and Hararghe Highland goat.

- **Objectives**

- To evaluate production and reproduction traits of Begait goat breed at farmers level

- To undertake evaluation of production and reproduction traits of Somali and Hararghe highland goat breeds on-station level

MATERIAL AND METHODS

Study Area

- 1. Tigray Region, West Zone , Kafta Humera district
- 2. Haramaya University goat farm

Sampling

Tigray Region

1 Zone (West Zone)

Kafta Humera District

3 PA (20hh per each)

1 Group Discussion

Total of 60 HH

58 Somali

58 HH goat

Data Collection Procedure

- Farmer level productivity and production performance evaluation of Begait goat was done in Kafta Humera district
- The questionnaire survey was conducted to access performance of Begait goat.
- Group discussion was organized with district level experts, research center experts, elders and women to collect the characteristics of Begait goat and the perception of farmers about their breed

- At farm level on Somali and Hararghe Highland goat breeds production and reproduction performance like:
- Weaning weight (WW),
- Yearling weight (YW),
- Age at Puberty,
- Age at 1st calving,
- Kidding interval (KI),
- Weaning age (WA)

Data Analysis

- The data was analyzed by SAS (9.1.3)

RESULT AND DISCUSSION

Begait goat production system

- Goat production management system of Humera district is extensive production system
- The dry season period of Humera, extends from May – June (which is quit longer dry period)
- Feed shortage, disease, and limitation of browsing area

- To cope up with the constraint during drought farmers has their own mechanism

  - feeding residues/cane of sorghum and sesame,

  - left over,

  - local brewery by products and

  - decrease the number of livestock by selling male goat and older

Begait goat pop. growth trend

1. 2002
2. 2007
3. 2017

With all the problems of goat production; they are surviving and reproducing them selves

With increased human population improvement on animal productivity per head is important

Production and reproduction performance of Hararghe Highland, Somali and Begait goat

Performance	H.H	Somali	Begait
birth weight	2.39±0.06	2.99±0.14	
Age at 1st calving (month)	15.80±.13	14.12±.32	12.51±0.203
Age at puberty (month)	9.81±.13	8.10±.12	6.11±0.129

Characteristics of Begait goat and perception of farmers

- Almost all of the farmers and elders have good attitude about Begait goat breed by revealing about the breed better performance in
  - ability to adapt the harsh environment,
  - disease resistance,
  - prolific,
  - good milk producer and fast grower.

- Besides they considered as this goat is their backup and their goat reflects their community way of life and social value.

- The farmers of Humera district had correlated the Dropping ear characteristics of Begait goat with milk production,

CONCLUSION

- Begait goat has the ability to adapt to the harsh environment (feed and water scarcity), disease resistance, have fast growth.

- Shortage of feed and veterinary facility is the main constraints of begait goat production.

- Somali goats performs better production and productivity than Hararghe Highland goat next to Begait goat .

RECOMMENDATIONS

- Good to consider Begait goat as a potential breed for meat and milk production
- It is important to give attention to local breed genetic improvement for a better utilization and to decrease indiscriminate cross breeding
- It is a need to secure veterinary facility and variation of goat production system to conserve and to utilize our resource efficiently

RESEARCH GAP

- Correlation between dropping ear and milk production needs further study
- The association between skull size and fertility on male goat

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