

Drought	0	0	0	0	13	20	15	0.13
Market	1	6	5	0.03	0	5	12	0.04
Lack of superior genotype	15	15	30	0.15	3	10	9	0.05
Predator	0	0	10	0.01	2	10	15	0.06
Labor	35	50	14	0.3	4	10	7	0.05
Wet season								
Feed shortage	87	27	6	0.44	2	1	0	0.01
Disease	7	21	23	0.12	70	29	20	0.4
Market	0	11	28	0.07	8	30	39	0.17
Lack of superior genotype	0	18	48	0.12	11	19	20	0.13
Predator	0	0	0	0	25	24	14	0.19
Labor	26	43	15	0.25	4	17	27	0.1

CONCLUSION

The present study evaluated goat husbandry and management practices in selected districts of Sidama zone as well as the challenges for production of goats. The management system is nearly similar to that of the rest of the country with the same agro-ecology. Goats were kept in both study areas for multiple purposes and keepers have their established criteria for selecting breeding does and bucks. The major production constraints were feed shortage, water shortage, diseases and labour shortage in both dry and wet seasons. Planning and executing goat development and extension services on management improvement, disease prevention and appropriate forage development strategies assists the smallholder goat farmers to increase goat production as a means of sustaining their livelihood.

CONFLICT OF INTEREST

The authors declare that they have no conflicts of interest. All co-authors have seen and agree with the contents of the manuscript.

ETHICAL STANDARDS

The manuscript does not contain clinical trials or patient data.

REFERENCES

- Skapetas B, Bampidis V. Goat production in the world: Present situation and trends. *Livest Res. Rural Dev.* 2016; 28(11):1-6.
- Zereu G, Meshka M, Shanka M, et al. Assessment of goat production systems and factors affecting production and utilization of goat's milk in Humbo district of Wolaita Zone, southern Ethiopia. *Journal of Biology. Agriculture and Healthcare.* 2016; 6(5).
- Gobena MM. Production performance, challenges and opportunity of goat production in Ethiopia. *Advances in Life Science and Technology.* 2016; 50(2224-7181):26-35.
- Tsegaye T. Characterization of goat production systems and on-farm evaluation of the growth performance of grazing goats supplemented with different protein sources in Metema woreda, Amhara region, Ethiopia (Doctoral dissertation, Haramaya university).
- Grum G. Community-based participatory characterization of the short-eared Somali goat population around Dire Dawa. Haramaya University, Ethiopia. 2010.
- Gizaw S. Sheep and goat production and marketing systems in Ethiopia: Characteristics and strategies for improvement. ILRI (aka ILCA and ILRAD); 2010.
- Bett RC, Kosgey IS, Kahi AK, Peters KJ. Definition of breeding objectives and optimum crossbreeding levels for goats in the smallholder production systems. *Small Ruminant Research.* 2011;96(1):16-24.
- Kosgey IS. Breeding objectives and breeding strategies for small ruminants in the tropics. Wageningen University and Research; 2004.
- Tesfahun B, Kebede K, Effa K. Traditional goat husbandry practice under pastoral systems in South Omo zone, southern Ethiopia. *Tropical animal health and production.* 2017 Mar;49:625-32.
- Gatew H. Characterization of indigenous goat populations in selected areas of Ethiopia. *American-Eurasian Journal of Scientific Research.* 2015;10(5):287-98.
- Kebede H, Jimma A, Getiso A, Zelke B. Characterization of Gofa cattle population, production system, production and reproduction performance in Southern Ethiopia. *Journal of Fisheries and Livestock Production.* 2017;5(3).
- Oluwatayo IB, Oluwatayo TB. Small ruminants as a source of financial security: a case study of women in rural Southwest Nigeria. Institute for Money, Technology and Financial Inclusion (IMTFI), Working Paper. 2012;1:21.
- Woldeyohannes T. Assessment of husbandry practices, production and reproductive performance of indigenous cattle in Hadiya zone, southern Ethiopia. *International Research Journal of Science and Technology.* 2020;1(3):177-98.
- Ntume B, Nalule AS, Baluka SA. The role of social capital in technology adoption and livestock development. *Livestock Research for Rural Development.* 2015; 27(9):181.
- Belete s. Production and marketing systems of small ruminants in Goma district of Jimma zone, western Ethiopia. *Hawassa Univ. Ethiop.* 2009; 34-105.
- Gizaw H, Komen JJ, Windig O. et al. Conservation priorities for Ethiopian sheep breeds combining threat status, breed merits and contributions to genetic diversity. *Genet Sel Evol.*, 2008; 40(4):1-15.
- Alefe, Phenotypic characterization of indigenous goat types and their production system in shabelle zone, south eastern Ethiopia, An MSc Thesis, Haramaya Univ. Haramaya, Ethiop. 112, 2014.
- B. Asefa and K. Kebede, "On Farm Phenotypic Characterization of Indigenous Goat Types and Their Production System in Bale Zone Of Oromia Region Ethiopia." Haramaya University, 2013.