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Socio-economic status and constraints faced by shepherds in Telangana

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Abstract

A study on socio-economic status and constraints faced by the shepherds of native sheep prevalent in Nagarjuna sagar area of Nalgonda, Nagarkurnool and Suryapet districts of Telangana was carried out by collecting information from 89 farmers in a total of 30 villages of 10 mandals under field conditions. In the present study, most of the farmers interviewed were of the middle age (74.16%) and having medium family size (68.54%). Majority (60.67%) of the shepherds were illiterates with sheep rearing as primary occupation (95.51%) and annual income ranged from Rs. 50,000 to Rs. 75,000. The average land holding capacity was 2.96 acres and most of them (43.82%) were small farmers. The average annual income of the shepherds was Rs.77, 921. It was noted that availability of veterinary services was not a constraint but lack of organized meat markets & scientific knowledge of the farmers, non-availability of concentrate feed, transport facility, grazing lands, water facilities, middle men hindrance were found to be major constraints faced by shepherds in the study area.

Keywords: Socio-economic status, Telangana, sheep rearing, annual income, constraints

1. Introduction

Sheep is one of the important small ruminant species of livestock in India that contributes greatly to the agrarian economy. Sheep rearing offers dietary protection and insurance to the farmer at the time of crisis because of natural calamities & crop failure and sheep is considered as the “finance elevator” of the poor farmer (Rather *et al.*, 2020) ^[6]. According to 20th livestock census (2019), India has about 74.26 million sheep population with 44 registered breeds and ranks 3rd in the world sheep population. About 13.8% of total livestock is contributed by sheep in the country. Telangana ranks first in sheep population (19.1 million) in the country (BAHS, 2019) ^[1] and is having highly productive sheep breeds like Deccani and Nellore. In certain pockets of Telangana especially in Nagarjuna sagar area of Nalgonda, Nagarkurnool and Suryapet districts, farmers prefer and rear a particular type of native sheep referred to as “Chukkajaala gorre” that were probably evolved over decades. The physical features are very distinct and don't resemble either completely Deccani or Nellore. The farmers in these areas prefer this native sheep due to their heat tolerance, ability to thrive on scarce feeding, disease resistance & hardiness. Thus, the present study is conducted to document the socio-economic status and constraints faced by the shepherds rearing these native sheep in Telangana.

2. Materials and Methods

The data was collected from 89 shepherds belonging to 30 villages of 10 mandals in Nalgonda, Nagarkurnool and Suryapet districts of Telangana. Five mandals in Nalgonda district, three mandals in Nagarkurnool district and two mandals in Suryapet district were chosen for the present study. Two to four villages from each of the specified mandals were picked from each district. From each village 3 to 4 sheep farmers were taken to record the data. Information on socio-economic status and constraints faced by the shepherds was collected with the help of a structured questionnaire by oral interaction with the farmers maintaining sheep flocks in the breeding tract.

3. Results and Discussion

3.1 Socio-economic status of farmers

Socio-economic status of farmers was presented in Table 1. The present investigation on shepherds rearing these native sheep revealed that the majority (74.16%) of the shepherds belonged to middle age group followed by old age (15.73%) and young age group (10.11%).

This shows that most of the young people from the study area were preferring new vocations and alternative occupations rather than sheep farming. These observations concur well with the findings of Rafiqul *et al.* (2019) [8], Shaik and Sharma (2019) [13] and Srinivasan & Roopa (2021) [15] who also reported that most of the shepherds were in middle age group.

The overall mean family size of the shepherds was found to be 5.20 members per family in the present study. Reddy *et al.* (2020) [10] and Rajanna *et al.* (2012) [7] while studying socio-economic status of sheep farmers of Andhra Pradesh also reported a similar average family size of 5.44 and 5.69 respectively. Among the farmers surveyed 68.54% shepherds were having medium sized family (4 to 6 members) followed by large family with members above 6 (19.10%) and small family having up to 3 members (12.36%). Similar findings of majority of medium sized family were found in the reports of Choudary *et al.* (2015) [2] and Reddy *et al.* (2020) [10] in Macherla brown sheep, Rafiqul *et al.* (2019) [8] in sheep farmers of Assam.

Majority of the shepherds (60.67%) were illiterates, while 28.09% were with primary education, 8.99% with secondary school education and 2.25% with a higher education of inter and above. Similar level of education among shepherds was reported by Sireesha *et al.* (2015) [12], Rafiqul *et al.* (2019) [8], Shaik and Sharma (2019) [13] and Sundaramoorthy *et al.* (2021) [16] in Pattanam adu sheep. The higher rate of illiteracy among farmers in the present study could be attributable to a lack of awareness and poverty and they entered the sheep rearing by tradition. As a result, adopting scientific ways of rearing and accepting new practices became a big impediment for farmers.

For majority of the farmers (95.51%) sheep rearing was the primary occupation and for only 4.49% of the farmers it was subsidiary, with agriculture as main occupation. The landless laborers and marginal farmers adopted sheep rearing as main source of income generation. Similar observations were made in the reports of Choudary *et al.* (2015) [2] in Macherla brown sheep farmers, Sireesha *et al.* (2015) [12], Shaik and Sharma (2019) [13] in Andhra Pradesh, Sundaramoorthy *et al.* (2021) [16] in Pattanam adu sheep farmers.

In the present survey it was noted that most (43.82%) of the farmers surveyed were small farmers holding 2.5 to 5 acres of land followed by 22.47% marginal farmers having 0 to 2.5 acres, 13.48% medium farmers who possessed 5 to 10 acres of land and 20.22% were landless. The average land holding capacity was 2.96 acres. The results were close to the findings of Shashikant (2014) [14] in Mouli sheep farmers, Reddy *et al.* (2020) [10] in Macherla sheep farmers, Sundaramoorthy *et al.* (2021) [16] in Pattanam adu sheep farmers who also reported that majority were small farmers. On contrary to these results majority of the farmers were landless in the reports of Rajanna *et al.* (2012) [7], Sireesha *et al.* (2015) [12] and Rafiqul *et al.* (2019) [8].

Among the farmers chosen, the major source of income was

either from only sheep rearing (57.30%) or from both sheep rearing and agriculture (42.70%). The average annual income of the shepherds was Rs.77,921. It was observed that 52.81% farmers generated an annual income ranging from Rs. 50,000 to Rs. 75,000. The low income might be due to not adopting to improved managerial practices and may be due to flock size. The results were similar to the reports of Shashikant (2014) [14], Choudary *et al.* (2015) [2], Rafiqul *et al.* (2019) [8], Shaik and Sharma (2019) [13] reported a lower annual income than in the present study.

3.2 Constraints faced by shepherds

The results related to constraints faced by shepherds were presented in Table 2. In the present study, it was observed that availability of veterinary services was not a constraint but the shepherds were found to be constrained by lack of organized markets. Selvam and Safiullah (2002) [11], Rauniyar *et al.* (2000) [9], Hari *et al.* (2014) [3] and Choudary *et al.* (2015) [2] also reported that the lack of organised markets was a constraint faced by the shepherds.

Non-availability of affordable concentrate feed, proper transportation, grazing lands and water facilities were found to be the major constraints to the sheep rearing in the current study. The results in the present study were almost similar to the reports of Kumar (2003) [4], Misra *et al.* (2007) [5] and Choudary *et al.* (2015) [2] where, shrinkage of grazing lands, unavailability of green fodder was the major constraint s faced by shepherds in their respective study areas.

It was also observed that lack of scientific knowledge of the shepherds and middle men hindrance in marketing sheep were the other major constraints in the present study. These findings were in agreement with Misra *et al.* (2007) [5], Hari *et al.* (2014) [3] and Choudary *et al.* (2015) [2].

4. Conclusion

From the study it can be concluded that socio- economic status of farmers was characterized by small land holdings, medium family size, middle age group, higher rate of illiteracy and poor annual income. The higher rate of illiteracy among the shepherds could be attributed to a lack of awareness about the importance of education and poverty and they entered the sheep rearing by tradition. As a result, adopting scientific ways of rearing and accepting new practices became a big impediment for farmers. Lack of organized meat markets & scientific knowledge of the farmers, non-availability of concentrate feed, transport facility, grazing lands, water facilities, middle men hindrance were found to be the major constraints faced by shepherds. Improving the educational status enables easier adoption of scientific methods in sheep management that would reduce the mortality percentage in sheep. By organizing the markets and preventing the middle men exploitation in marketing the sheep helps in increasing the economic status of the shepherds.

Table 1: Socio-economic attributes of sheep farmers rearing the native sheep of Telangana (n=89)

S. No	Socio-economic attribute	Category	N	%
1.	Age	Young (<30)	9	10.11
		Middle (31-50)	66	74.16
		Old (>50)	14	15.73
2.	Family size	Small (up to 3 members)	11	12.36
		Medium (4 to 6)	61	68.54
		Large (above 6)	17	19.10
		Overall mean (family size)	5.20	
3.	Education	Illiterate	54	60.67
		Primary	25	28.09
		Secondary	8	8.99
		Inter & above	2	2.25
4.	Main occupation	Agriculture	4	4.49
		Sheep rearing	85	95.5
5.	Land holding (acres)	Landless	18	20.22
		Marginal farmers (0-2.5)	20	22.47
		Small farmers (2.5-5)	39	43.82
		Medium farmers (5-10)	12	13.48
		Large farmers (above 10)	Nil	0
		Overall mean (land holding in acres)	2.96	
6.	Cultivation of fodder crops (n = 74)	Yes	26	29.21
		No	63	70.79
7.	Source of income	Sheep rearing	51	57.30
		Sheep rearing & Agriculture	38	42.70
8.	Annual income (Rs)	50,000 to 75,000	47	52.81
		76,000 to 1,00,000	36	40.45
		More than 1,00,000	6	6.74

n= no. of farmers

Table 2: Constraints in sheep rearing faced by shepherds (n = 89)

S. No	Observation	n	%	
1.	Veterinary services	Available	89	100
		Not available	0	0
2.	Organised meat markets	Available	0	0
		Not available	89	100
3.	Concentrate feed	Available	9	10.11
		Not available	80	89.88
4.	Transport facility	Available	10	11.24
		Not available	79	88.76
5.	Grazing land	Available	6	6.74
		Not available	83	93.25
6.	Water facility	Available	9	10.11
		Not available	80	89.88
7.	Scientific knowledge	Present	25	28.08
		Lacking	64	71.91
8.	Middle men hindrance	Present	81	91.01
		Absent	8	8.98

n= no. of farmers

5. References

1. BAHS. Basic Animal Husbandry and Fisheries Statistics. Department of Animal Husbandry, Dairying & Fisheries. Ministry of Agriculture, Govt. of India. 20th livestock census (2012-2019). Ministry of Agriculture Department of Animal Husbandry, Dairying and Fisheries, Krishi Bhawan, New Delhi; c2019.
2. Choudary PV, Ekambaram B, Prakash MG. Morphological characterization of Macherla brown sheep of Andhra Pradesh. Indian Journal of Small Ruminants (The). 2015;21(1):103-10.
3. Hari R, Hussain K, Chander M, Chaturvedani AK. Analysis of the constraints perceived by sheep farmers in Jammu and Kashmir. The Indian Journal of Veterinary sciences and Biotechnology. 2014;10(2):58-61.
4. Kumar D. A study on problems encountered in sheep rearing in Rajasthan. The Indian Journal of Small Ruminants. 2003;9(1):43-46.
5. Misra AK, Rama Rao CA, Subrahmanyam KV, Vijay Sankar Babu M, Shivarudrappa B, Ramakrishna YS. Strategies for livestock development in rainfed agro-ecosystem of India. Livestock Research for Rural Development. 2007;19(6):83. <http://www.lrrd.org/lrrd19/6/misr19083.htm>.
6. Rather MA, Bashir I, Shah MM, Ahanger SA, Hamadani A. A Brief Overview of Sheep Husbandry in Jammu and Kashmir. International Journal of Current Microbiology Applied Sciences. 2020;9 (5):1644-1651.
7. Rajanna N, Mahender M, Thamiraju D, Raghunadan T, Nagalakshmi D, Sreenivasa Rao D. Socio-economic

- status and flock management practices of sheep farmers in Telangana region of Andhra Pradesh. *Veterinary Research*. 2012;5(2):37-40.
8. Rafiqul Islam, Rahman M, Kr Chandan. Socio-Economic Profile and Management Practices Adopted by Sheep Farmers in Dhubri District of Assam. *Indian Journal of Veterinary and Animal Sciences Research*. 2019;48(2):45-51.
 9. Rauniyar GP, Upreti CR, Gavigan R, Parker WJ. Constraints in sheep farming in Nepal: development challenge for poverty alleviation. *Asian – Australasian Journal of Animal Sciences*. 2000;13(8):1162-1172.
 10. Reddy PP, Vinoo R, Muralidhar M, Venkatesasaiah C, Kumar KA, Sudhakar K. Socio-economic status, sheep husbandry practices and morphological patterns of macherla sheep, a lesser-known sheep breed of Andhra Pradesh. *Journal of Animal Research*. 2020;10(5):827-835.
 11. Selvam S, Mohamed Safiullah A. Current status of small ruminants in Tamil Nadu. *Indian Journal of Animal Science*. 2002;72(8):695-698.
 12. Sireesha K, Prasad RMV, Rao SJ, Jayalaxmi P. Socio-economic status and constraints faced by shepherds in Guntur district of Andhra Pradesh. *Indian Journal of Animal Production and Management*. 2015;31:43-45.
 13. Shaik M, Sharma GRK. An analysis of profile characteristics of sheep farmers towards applicability of sheep advisory system: A study in Andhra Pradesh state. *The Pharma Innovation Journal*. 2019;8(12):215-218.
 14. Shashikant S. Morphological characterization of Mouli sheep. M.V.Sc. Thesis submitted to KVAFSU, Karnataka, India; c2014.
 15. Srinivasan G, Roopa K. Socio Economic Status of the Goat Farmers in Fringe Villages of Western Ghat in Virudhunagar District, Tamil Nadu. *Agricultural Science Digest- A Research Journal*. 2021;41(2):358-363.
 16. Sundaramoorthy M, Kumaravelu N, Thamilvanan T, Serma A, Pandian S. Production and reproduction performance of Pattanam adu sheep in the breeding tract of Tamil Nadu. *Journal of Entomology and Zoology Studies*. 2021;9(2):1003-1005.