

Original Research Article

Participation of Diverse Gender in the Production of Goats in Negros Occidental

ABSTRACT

Aims: This study aims to identify the demographic profile of each involve in goat raising and to identify the different practices of each gender involve in goat raising.

Study design: The study used the descriptive type of research design using a structured questionnaires based on the Philippine Recommend for Goat Production.

Place and Duration of Study: Sample: All cities and municipalities of the Province of Negros Occidental conducted between

Methodology: It employed a purposive sampling technique where 25 respondents were surveyed in each municipality and/or city. The interviewed respondents were based from the farmer's data base of the local agriculture office. A total of 580 backyard goat raisers were interviewed in this study. Data gathered were coded and analyzed using the SPSS statistical software. Interpretation of data were determined using frequencies, mean and standard deviation.

Results: Among 580 goat raisers, 57.6 % were male while the remaining 42.4% is female. In the said production, 50 years old and above dominantly engaged with 31% aged, follow by 40-49, 30-39 and 20-29 age groups with 30%, 28.3%, and 9.8% respectively. Most of them were married with 81.9%. Females (46.7%) tend to raised goats for breeding purposes while males (71.6%) raised goats for meat purposes. Majority of the male (49.1%) practices crop-livestock integration while most of the female (44.3%) practices mono-farming. Both genders have almost the same percentages when it comes to diversified farming. Moreover, in terms of goat raising system, tethering was dominantly practiced by both gender (F-91.9% & M-95.8%) followed by range (F-12.6 & M-16.5%) and feedlot (F-3.7% & M-0.9%).

Conclusion: This study observed that there is declining numbers of young men and women involved in livestock farming, indicates a less interest in the next generation to venture in agriculture. It has also been found out that males raised goats for meat type as source of income, practice crop-livestock integration and feed their goats in tether and range systems. On the other hand, females raised goats for breeding for easy care, practice mono-farming and feed goats in feedlot system for them to do other household activities.

Keywords: (Gender, gender role, goat raising, gender participation)

1. INTRODUCTION

Livestock production systems in developing countries are varied. They include nomadism ranching, intensive and mixed-livestock and crop farming. The goat (*Capra hircus*), one of the most popular domesticated small ruminants among people residing in rural area, improves their standard of living by giving them access to milk, meat, wool, and leather. Utilizing marginal lands, manure, and farm waste, small ruminants support the economy, create jobs, ensure food security, promote sociocultural sustainability, and protect the environment (Aldorasi, 2018). Goats have always been considered as very useful animals. The success of goats mainly relates to its marvelous adaptability to the challenging mountain conditions, extreme weather and low feed acceptance, versatile habits and high production considering their body size (Monteiro, et al., 2017). The total inventory of goats in the country recently was estimated at 3.60 million heads, in which Western Visayas recorded the highest population, followed by Ilocos Region and Central Visayas with 522.41, 481.82 and 412.53 thousand heads, respectively (PSA, 2021).

Gender differences exist in aspects of small ruminant production such as ownership, labor allocation, decision-making, and access to and control over resources (Ogolla et al., 2022). The term gender refers to culturally based expectations of the roles and behavior of women and men. It distinguishes the socially constructed from the biologically determined aspects of being male and female. Gender issues focus not only on women, but on the relationship between men and women, their roles, access to and control over resources, and division of labor and needs. Gender relations determine household security, well-being of the family, planning, production and many other aspects of life (International Fund for Agricultural Development, 2003). This study was conducted to assess gender's participation in goat raising and look for factors to established approaches to improve gender participation in livestock farming.

Objectives of the Study

This study generally aims to identify the involvement among genders in goat raising, specifically this study aims to identify the socio-demographic profile of each gender involve in goat raising, and to determine the participation of each gender in different activities of goat raising.

2. MATERIAL AND METHODS

2.1 Research Design and Respondents

The study used the descriptive type of research design using a structured questionnaires based on the Philippine Recommend for Goat Production (Philippine Council for Agriculture and Natural Resources Research and Development, 2004). It employed a purposive sampling technique where 25 respondents were surveyed in each municipality and city. The interviewed respondents were based from the farmer's data base of the local agriculture office. A total of 580 backyard goat raisers were interviewed in this study.

2.2 Conduct of the Survey

The researchers coordinated with the local leaders and/or government in-charge personnel of a certain area to conform the IATF guidelines to conduct interview to the identified backyard goat raisers. After the clearance was obtained, the researchers conducted a face-to-face interview with the identified respondents. The adapted survey questionnaire administered to the respondents to gather information on socio-economic profile, production activities and management practices of the goat raisers.

2.3 Data Analysis and Interpretation

Data gathered were coded and analyzed using the SPSS statistical software. Interpretation of data were determined using frequencies, mean and standard deviation

3. RESULTS AND DISCUSSION

Socio-Demographic Information

Table 1 shows the socio-demographic information of goat raisers in Province of Negros Occidental in terms of gender and age. Out of the five hundred eighty (580) goat raisers, three hundred thirty-four (334) of them (57.6 %) were male while the remaining two hundred forty-six (246) or 42.4% were female. Among the age group, 50 years old and above or 31% were dominantly engaged in goat raising followed by 40-49 and 30-39 with 30% and 28.3%. There were only 9.8% young individuals from 20-29 age group who were engaged in goat raising. Most of the interviewed backyard goat raisers were married, followed by single and living in partner with 81.9%, 11.9% and 3.4%, respectively.

Men tend to engage in goat raising due to their strong physique that allows them to tie, graze, hunt, displace or carry out the goats and able to manage goat mobility, (Jaza, et. al., 2018). On the case study of gender dynamics in goat production in South-east Kenya by Ogolla et al. (2022), adjoined that men dominantly owned the small ruminant than women. In terms of decision-making, ownership of more valuable stock, and management of livestock production, males outnumber women (Mupawaenda et al., 2008). On the other hand, the majority of the women handled production duties related to goat production, such as feeding, watering, selling milk, and cleaning housing structures (Orogolla et al., 2022). Care for young animals and backyard livestock is also largely done by women. In caring for sick young animals, women have evolved several ethno veterinary practices (Singh et al., 2013). Moreover, female tend to engage in raising poultry animals due to their light weight and easy for them to carry and manage, (Tchotsua & Gonne, 2009). Married women are highly involved in agriculture and livestock management activities to meet their daily needs, as Aldosari (2017) stated. This one is same with the goat raisers in Negros that married women are involve in goat raising. The major purpose of selling goats in subsistence goat farming, especially for women family heads, is to pay for household expenses and crises. While men herd the larger animals, women tend to the water and feed tiny ruminants and other livestock close to their homesteads (Sapcota et al., 2017). Involvement of young age group in livestock ventures is also declining for years and a sign that young people are less interested in raising goats and are instead turning to jobs that provide quick and easy revenue, like trade. This is also a result of young people moving to metropolitan areas in pursuit of better living

circumstances. When examining the disparities in expectations between the young and the old, the age of the herders can have an impact on how the farm is managed (Ouchene-Khelifi et al., 2021).

Table 1. Socio-demographic information of goat raisers in Negros

Respondents	F	%
Gender		
Female	246	42.4 %
Male	334	57.6 %
Age		
20-29	57	9.8 %
30-39	164	28.3 %
40-49	174	30 %
50 and above	180	31 %
Prefer not to say	5	0.9 %
Civil Status		
Single	69	11.9%
Married	475	81.9%
Living with Partner	20	3.4%
Separated	1	0.2%
Widowed	15	2.6%

Purpose of Goat Raising of Goats

Figure 1 presents the different purposes of raising goats. These are breeding, meat, and milk purposes. Data reveals that among gender, females (46.7%) raised goats for breeding purposes. However, males (71.6%) raised goats for meat purpose. Both genders have almost the same percentage when it comes to milking in raising goats. However, Aldosari (2017) stated that regarding to greater participation, males were in a better position to obtain benefits from sheep and goat farming. Usually, men of the house help the females in marketing of their animals. This might be due to their greater experience and easy access to the farm areas as compared to females. Males engaged in raising goats for meat purpose because of the gender mobility and ability to deliver the goats to the market. This is an agreement to Laouadi (2018) that the primary reason of keeping goats is that they considered it as a source of income from selling it. Waithanji et al. (2013) as cited by Boogaard, et al. (2015) reported that women may be less mobile and more occupied with household tasks, giving them fewer opportunities to sell goats. Caring for young ruminants comes naturally for women (Singh et al., 2013) and dedicated their work on milking and caring the kids (Arce et al., 2022; Angassa & Berhan, 2015). On the other hand, (male) family members might be helping FHHs to sell an animal, e.g., by transporting it to a sales location. Goat farming activities such as grazing, kid selling and barn disinfection, are male dominated activities, whereas activities like milking and barn cleaning are female's domain and the rest of the activities were carried out both male and female. Males usually the breadwinner in the family and goat raising for meat purpose could give them income. Women on the other hand are involved in breeding since women are good in rearing kids and cleaning houses (Tyagia, K. et al., 2014). In contrast to this findings, Angassa and Berhan (2015), concluded on their study that husbands are primarily responsible for marketing and breeding related decisions of goats, while women undertake the routine husbandry activities like sick animal care, milking and cleaning barns. The agricultural household benefits from this division of labor based on gender since it makes up for the absence of reliable capital and guarantees that the task is completed. In the research region of Morales et al. (2020), raising goats for revenue was regarded as the primary goal. Furthermore, the author said that rural people do not sell large animals since it is more difficult to recover them than tiny ruminants. While the importance of conserving insurances, meat, milk, ceremonial value, and other items has been rated after income sources.

Farmers view men's full-time work as farmers and women's multitasking responsibilities as complimentary because they both provide food and two separate incomes (Harman et al., 2015). As of december 2021, the Negros Occidental rank 7th on top goat producing province according to PSA (2021). Livestock or goat farming is a valuable asset for regional socioeconomic and cultural systems because it effectively uses resources that would not otherwise be usable (Aldosari, 2018). Unfortunately, due to restricted access to technology, improved production techniques, inputs/stocks, and marketing assistance, backyard farms are still lagging behind in terms of economic gain and prospects despite the onset of the technological revolution and advancements (Paguia et al., 2020).

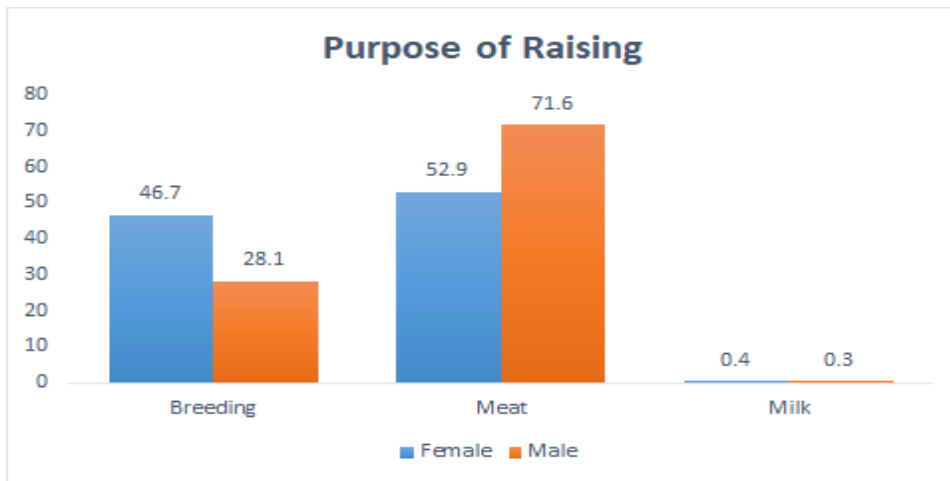


Fig. 1. Purpose of Raising

Farming System

Figure 2 presents the farming systems employed in goat raising. Data reveals that majority of the male (49.1%) practices crop-livestock integration while most of the female (44.3%) practices mono-farming. Both genders have almost the same percentages when it comes to diversified farming.

Reddy (2016) stated that the integration of crop, pasture, and livestock is mutually beneficial to each other, since crop residues can be used as animal feed, while animal manure can be utilized to enhance soil tilth, fertility, and carbon sequestration that can enhance agricultural productivity. Males practice this crop-livestock integration due to multiple commodities present in the farm. Multiple commodities need strong labor force to cultivate and take good care the animals to have a high net return, which males could provide. On the other hand, females choose mono-farming which give them the focus in growing the goats. Manpower and strength is concentrated and these will allow also other women to do other household chores after their activities with the goats. Similar to other production methods, raising goats does not merely include combining crops and animals for immediate gain. They stand for a group of interconnected factors that the farmer manages in accordance with their goals. The farmer will determine the goals that are impacted by the social milieu in which he operates, his level of technical expertise, and the production elements that are accessible (Monteiro et al., 2018). Most small family farms grow and sell more than one type of crop on their property. Cultivating a variety of crops encourages the advantages of biological and economic diversification. In an agricultural system, the biological variety of living things both plants and animals many of which humans cannot see, inhibits the emergence of a dominant species (Arakaki & Aquino, n.d.).

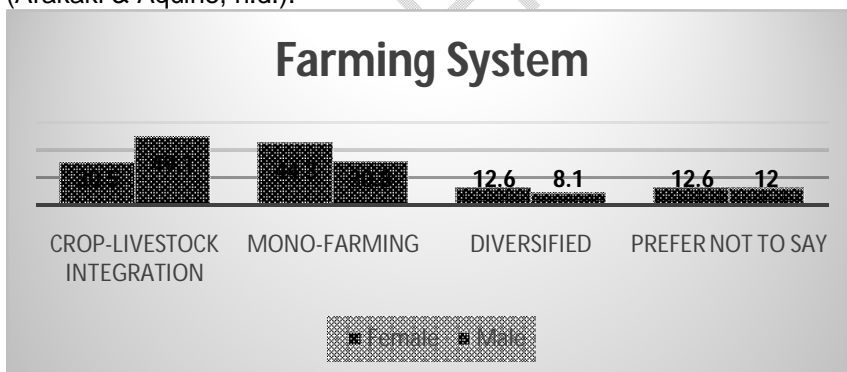


Fig. 2. Goats farming System

System of Raising Goats

It is revealed in figure 3 that majority of goats raising system employed among genders are tethering (F-91.9% & M-95.8%) followed by range (F-12.6 & M-16.5%) and feedlot (F-3.7% & M-0.9%). Males and females prefer to raise goats in tethering this is in agreement with Mollél and Mtenga (2000), Men usually did a larger proportion of tasks when it comes to goat raising, and also male children contributes labor tasks more than females. The remaining tasks were more or less

equally shared between genders of all ages. Tethering is a tedious task that requires moving the goats from the home to the roadside sometimes a kilometer or two away from home. Male goats are particularly difficult to handle by women. The most common feed sources are browse of different bushes, shrubs, tree leaves and other and are literally available in consistent manner both during wet and dry season (Angassa and Berhan, 2015). In these systems, the main source of feed is grazing. The goats graze the natural resources, especially those in the shrubby area under extensive conditions and throughout the year (Morales et al., 2020).

Range is letting the animals to roam around while grazing in a fenced pasture, and feedlot. These two systems are usually done by males because females are busy with household activities. These two systems are done in areas usually far from the houses, where males are more secured in moving to and from compared to females. Females do the feedlot system because after their household activities, they collected forages that they will be used as a feed to their goats. According to Sow et al. (2021), description of smallholder goat production in rural Senegal, Africa, practically all goat owners used agro-pastoral methods. In a complex sedentary system, animals are brought back to the cultivated regions after harvesting in the dry season and allowed to graze on fallow land and natural vegetation zones. The presence of other ruminant animals, particularly cattle, shows that farmers in the study region are interested in mixed farming of small ruminants.

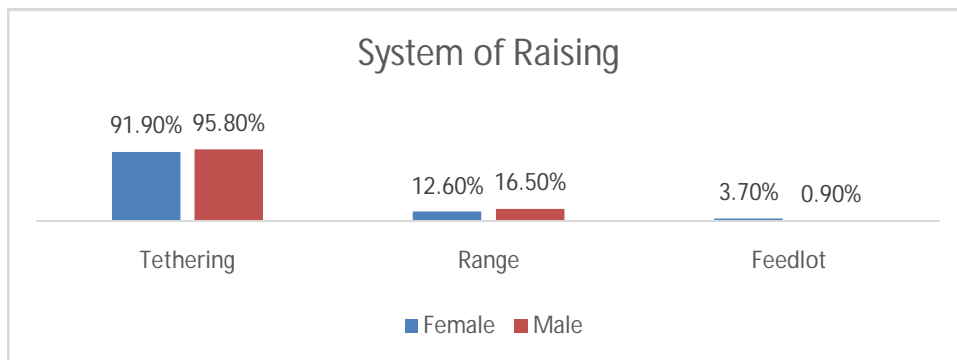


Fig. 3. Goats System of Raising

4. CONCLUSION

The findings of the study give us a glimpse that the backyard goat raisers in Negros Occidental are mostly males, 50 years old and above and married in status. A declining number of young men and women in involvement in livestock farming is also observed indicating a less interest in next generation to venture in agriculture. It has also been found out that males raised goats for meat type as source of income, practice crop-livestock integration and feed their goats in tether and range systems. On the other hand, females raised goats for breeding for easy care, practice mono-farming and feed goats in feedlot system for them to do other household activities.

RECOMMENDATIONS

The results of the study recommend to survey the sexes of goats to fully understand the role of men and women in preference to goat raising including the household size of the family who raised goats.

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DEFINITIONS, ACRONYMS, ABBREVIATIONS

SPSS: Statistical Package for the Social Science