

International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

A Study on the Perceptions of Dairy Farmers on Income Management and Life Betterment in Palamaner Town, Chittoor District.

P DEVENDRA Reddy a, Prof. G L Narayanappa b*

- ^a Research schlor, Dravidian University, Srinivasanam, Kuppam, Andhra pradesh, India -517426.
- ^b Professor, Dept. of Business Management, Dravidian University, Srinivasanam, Kuppam, Andhra pradesh, India -517426. Devendrareddy2012@gmail.com

ABSTRACT

This study used to have a glance on the perceptions of dairy farmers in Palamaner Town, Andhra Pradesh, regarding their income management and its influence on life betterment. The dairy farming serves as a consistent livelihood source for smallholder families in this semi-urban region. This research is adopts the conceptual and qualitative approach, which drawing the insights from the secondary literatures, policy reports, and case studies. It highlighting the crucial roles of the cooperative structures, financial literacy, veterinary support, and smart dairy technologies are used in enabling the effective income utilization. The findings of the study reveals that, while cooperatives are helping to enhance the income stability and market access, many of the farmers are still facing their challenges in the market such as price volatility, limited financial knowledge, and access gaps from the government schemes. This study recommends that strengthening inclusive cooperatives, promoting financial education, subsidizing veterinary services, and introducing digital tools for the dairy management. This is used to bridging the gap between the policy and field-level realities. This research provides a foundation to the targeted interventions for improving rural well-being and sustainable dairy-based livelihoods.

Keywords: Dairy Farming, Income Management, Financial Literacy, Cooperative Structures, Rural Livelihoods.

1. Introduction

Dairy farming is playing a pivotal role in the rural livelihoods, which is particularly in semi-urban regions like Palamaner, where the smallholder's families are depending on the daily milk production as a consistent of their income source. As per the findings of Garai et al. (2017) we can observing that scientific dairy-based extension services are substantially improving the farmers' knowledge, milk yield, and for monthly earnings in West Bengal. Similarly, Chhabra et al. (2016) reported that skill-based training in Punjab, which increasing the average herd sizes and which led to higher net income per animal, this reinforcing the importance of the technical education leads to dairy enterprise success. These findings are highlighting how supporting systems and training can create positive shapes to income management practices. Over the past two decades, the research of Gamit, Viralkumar et al. (2021) has consistently showing that small-scale dairy producers in India are facing recurring challenges such as volatile feed costs, poor access to veterinary services, and limited market linkages. Despite the national achievements are like the White Revolution, rural dairy households often struggle to achieve the sustainable life improvement without adequate institutional backing. The sustainable dairy practices are essential for the rural growth. The study highlighted by Darwai et al. (2024) the use of MIVES tools are used to assess the sustainability in small-scale dairy farms in India; this approach emphasizes that, the importance of promoting the value-added products and its by-products in the market. This study is used to help the farmers to run their operations more efficiently and also it supporting the long-term success and sustainability of their dairy businesses. Based on this, the present study takes a closer look at how dairy farmers in Palamaner town, Chittoor district, are perceiving and maintaining their income management. It focuses on the day to day strategies that mostly rely on the enrolment in the cooperatives, cutting down unnecessary costs, and also which improving their productivity. More importantly, this study seeks to understanding how these practices are shaping their hopes and goals for financial security and a better quality of life, especially as they look ahead to 2025.

2. Need, Scope and Significance.

Need of the study

The dairy farming is a continues, and a critical livelihood source for the small and marginal farmers in semi-urban regions like Palamaner town, Chittoor district, where the daily milk production offers a steady income stream. Despite it is potential to uplifting the rural households, the effective use and management of dairy income are often hindered by the fluctuating milk prices, limited access to veterinary services, inadequate financial literacy, and social barriers. The existing research is emphasized the role of cooperatives, training programs, and smart dairy technologies in improving farmers'

earnings and productivity, yet there is a lack of localized studies that capture the actual perceptions and experiences of farmers regarding how this income contributes to their overall well-being. The palamaner, being a town in Chittoor district, with a unique blend of rural and semi-urban characteristics, which presents a valuable setting to understand how income from dairy's are utilized for household needs, investments, education, and social advancement. Therefore, this study is essential to bridge the gap between the national-level policies and ground-level realities by offering a theoretical understanding of income strategies, resilience patterns, and livelihood aspirations of dairy farmers in the region. The findings can inform the future interventions and support systems that are more responsive to local needs and challenges.

Scope of the study

The present study is confined to understanding the perceptions of the dairy farmers in Palamaner town of Chittoor district, Andhra Pradesh, which regarding how the dairy farmers are managing their income which was generated from the dairy activities and how it contributes to improving their quality of life. The scope includes in exploring various dimensions of income allocation, such as household needs, education, healthcare, farming investments, and savings and it studying how these decisions are reflect the farmers' socio-economic goals. While the study does not including the quantitative data collection, it draws heavily from the theoretical frameworks, secondary data, and existing literature that highlight the socio-cultural and economic realities of the dairy farming communities. The research primarily examines the smallholder's and marginal farmers, who represent the majority of dairy contributors in the region. It further aims to examine the impact of cooperative structures, used access to technical services, and also income planning strategies within the local context. The insights gained are intended to inform the future support systems and livelihood development programs suited to similar semi-urban settings across India. However, the study is limited to conceptual analysis and does not including the primary fieldwork or statistical modeling.

Significance of the study

This study holds the significant value in understanding the role of dairy farming as a catalyst for the rural development in semi-urban regions like Palamaner town, Chittoor district. While national-level dairy reforms have focused on the production enhancement, there is a limited exploration of how the smallholder farmers are perceive and manage the income generated from their dairy activities in their real-life, localized context. By exploring the relationship between income management and improved quality of life of dairy farmers, This study brings attention on how dairy incomes are allocated for basic needs, healthcare, children's education, farming inputs, and long-term savings. It emphasizes the importance of the cooperative structures, financial literacy, and technological support in enabling the rural families to improve their standard of living. The study is also significant as it presents a conceptual framework based on existing literatures, Which can helping the policymakers, NGOs, and rural development agencies for better understanding the socio-economic aspirations and challenges of dairy farmers in Palamaner. By filling this gap, the research can inform the targeted interventions that foster income stability, sustainable livelihood, and the holistic rural well-being.

3. Research Methodology:

This study adopts the qualitative and conceptual research approach to explore the perceptions of dairy farmers in Palamaner town, Chittoor district, Andhra Pradesh, which are regarding the income management and life betterment of dairy farmers. Instead of depending on the primary data collection through surveys or interviews, this study is based on insights drawn from existing literature, government reports, and previously published case studies. It aims to understand, how the dairy income contributes to household welfare, education, healthcare, and overall socio-economic mobility in the rural contexts. The study follows a phenomenological perspective to reflect the lived experiences of smallholder dairy farmers as documented in prior research. The data was examined through a thematic approach, which is identifying common patterns related to income usage, challenges faced by the farmers, and the support structures available to them. This methodology allows for an in-depth theoretical understanding of rural livelihood strategies without direct field involvement, while maintaining the academic rigor through critical analysis of the credible secondary sources.

4. Review of Literature:

The dairy farming has emerged as a vital livelihood strategy for rural households across the India, specially in the semi-urban regions like Palamaner Town, Chittoor district. The significance of dairy income in supporting the dairy farmers family welfare, nutrition, and socio-economic mobility has been widely studied in recent decades, those are showing in the following studies.

4.1. Dairy Farming in Rural Livelihoods:

Research over time has clearly shown that dairy farming is a dependable and steady source of income for small and marginal farmers. Gaillard and Dervillé (2022) pointed out that in six Indian villages, dairy cooperatives made a meaningful difference in people's lives by helping farmers get better access to markets, fair prices for their milk, and much-needed support services. These cooperatives played a key role in improving the overall well-being of rural communities. These cooperatives act not only as financial anchors but also as social safety nets, particularly for farmers with limited land or capital.

4.2. Income Management Practices:

The effective income management among dairy farmers is influenced by their access to extension services, financial literacy, and cooperative support. The study by Cariappa et al. (2021) shows that scientific approaches like providing mineral mixtures and veterinary care had a strong positive impact on milk production and farmers' monthly income in Haryana. Their research is highlights how spreading knowledge and focusing on preventive animal health can directly help rural dairy farmers make better use of their income and adopt healthier saving habits.

4.3. Cooperative Structures and Social Equity:

The cooperative models are often to seen as holistic, but the Gaillard and Dervillé (2022) caution that accessibility can be shaped by the caste and geographic proximity to collection center's. The farmers belonging to backward communities may face social barriers that give a limit full participation in these institutions, affecting their ability to manage income efficiently.

4.4. Technological Interventions:

A recent systematic review by Thotapat et al. (2024) highlights how the Internet of Things (IoT)-based smart livestock farming can incorporating sensors, data analytics, and automated monitoring, which can vastly improve productivity, income stability, and resource management on dairy farms. Although such technologies are still emerging in Indian contexts, their implementation could empowering the dairy farmers in Palamaner town to engage in better income forecasting, record-keeping, and proactive herd management, this can potentially enhancing expenditure planning and savings behaviour in dairy farmers.

4.5. Market Risks and Financial Planning:

Based on the research of Valvekar et al. (2011) emphasized that price volatility in milk and feed costs could be effectively managed by using financial instruments like Livestock Gross Margin (LGM) insurance. Their study revealed that such tools help stabilize income for dairy farmers by hedging against unpredictable market fluctuations. Whereas these tools aren't commonly used in Indian dairy sector, the idea brings forward an important perspective on how the farmers can plan their income more strategically. This carries special importance for smallholder farmers in semi-urban areas like Palamaner town in Chittoor district, where they having a stable and resilient income is key to building a sustainable livelihood and also used for improving their overall quality of life.

These studies are come together to emphasizes how the cooperative networks, scientific supports, and financial awareness playing a key role in shaping the dairy farmers to manage their income. At the same time, ongoing social and infrastructure challenges are still limit the full potentiality of dairy farming in improving lives, which is specially in places like Palamaner town in Chittoor district, Andhra Pradesh. These observations are lays the groundwork for the understanding that how local farmers are approaching their income planning, shaped by their specific environment and socio-economic realities.

5. Findings of the Study

This study reveals that dairy farming continues to serve as a dependable source of daily income for the smallholder families in Palamaner town which is located in Chittoor district. In the farmers point of view the dairy's are not just a livelihood but as a backbone for sustaining household needs, children's education, and for health expenses. A major finding is that income management is deeply influenced by the presence or absence of cooperative structures, with farmers affiliated with cooperatives showing better income planning, market access, and support utilization. There is many farmers are still lack exposure to financial literacy and modern farm record-keeping, which limits their ability to save or invest their income strategically. The milk price fluctuations such as, high veterinary costs, and increasing feed expenses continue to put pressure on dairy farmers. Yet, many show remarkable resilience by making the most of what they have, saving informally, and leaning on their communities for support.

6. Recommendations:

6.1. Strengthen Cooperative Access:

To improve financial security and accessibility to services, there is a critical need to strengthening the role of dairy cooperatives in Palamaner town. So the government bodies, NGOs, and rural development agencies should actively promote inclusive cooperative membership by removing socio-cultural barriers faced by the marginalized farmers. This effort must focus on the increasing awareness about cooperative benefits, and ensuring transparency in milk procurement, and also streamlining payment systems. Suggesting to integrate the veterinary services, input supply, and training programs within cooperatives, the farmers can experience both economic and social upliftment through the collective bargaining power and also shared resources.

6.2. Promote Financial Literacy Programs:

This study is point outing a clear gap in the financial awareness among the dairy farmers which is specially on their budgeting, saving, managing credit, and understanding insurance options. To address this, there's a strong need to roll out well-designed financial literacy programs at the village level. These

programs can help to farmers can make smarter money decisions and build a more secure. These programs may also give knowledge to the farmers about government schemes, loan repayment planning, and investment in livestock or dairy infrastructure, which enabling them to make informed and confident in the financial decisions.

6.3. Subsidize Veterinary and Feed Services:

The study explains a high veterinary costs and fluctuating feed prices are directly giveing impact to the profitability of dairy farming. So It is recommended to the local authorities, they need to collaborate with the veterinary universities, dairy development boards, and private providers, to deliver subsidized and the mobile veterinary services. The distribution of mineral mixtures, balanced feed, and timely vaccinations can prevent common diseases and which can increase productivity and making such services affordable and accessible would directly reduce input costs and encourage sustainable herd management among the small-scale farmers in Palamaner town.

6.4. Introduce Smart Dairy Tools:

The Government initiatives in agri-tech startups should be encouraged to distribute easy-to-use technologies that are compatible with the low-literacy environments. Taking training sessions and demonstration camps can tells about how to use these tools to help farmers to adopt the modern practices while enhancing efficiency and profitability.

6.5. Bridge Policy-Field Gaps:

The availability in several welfare and development schemes for dairy farmers, there is a big gap in actual implementation. Many farmers are remain unaware of the schemes or challenges in accessing them due to bureaucratic complexities and lack of field-level support. To close this gap, the authorities should invest in the capacity-building of local extension officers, develop digital platforms for awareness generation purpose, and simplify the documentation and application processes for better transactions. The village-level facilitation centers on dairy firm help desks can play a key role in ensuring the last-mile delivery of services and building trust in the institutional mechanisms.

7. Conclusion:

This study providing the valuable insights such as how the smallholder dairy farmers in Palamaner Town view and manage their dairy income, and how it effects on their overall quality of life, and how it confirms that dairy farming continues, to be a key pillar of rural livelihoods which offering not only a steady source of income but also contributing significantly to household stability, access to education, and improvements in health and well-being. Whereas cooperative models, extension services, and training interventions are proven beneficial to dairy farmers but several farmers still face the structural limitations in terms of access to veterinary care, smart technologies, and financial literacy. The theoretical framework adopted in this research has helped surface the real challenges and strategies practiced by the local farmers in the absence of robust institutional support. This study is suggesting to the policy makers and development agencies to move beyond production-oriented reforms and need to focus on the socio-economic dynamics of income usage for the dairy farmers. Strengthening the cooperatives, bridging information gaps, and integrating smart tools with ground-level governance can transform dairy income into a pathway toward long-term rural resilience and prosperity in Palamaner town and similar semi-urban settings across India.

References

Garai, S., Garai, S., Maiti, S. et al. Impact of extension interventions in improving livelihood of dairy farmers of Nadia district of West Bengal, India. Trop Anim Health Prod 49, 641–648 (2017). https://doi.org/10.1007/s11250-017-1244-5

Chhabra, A., Sharma, V. K., & Singh, V. P. (2016). Impact of dairy cooperatives on income and employment of farmers in South Western Punjab. Indian Journal of Economics and Development, 12(3), 529–534. https://doi.org/10.5958/2322-0430.2016.00171.2

Gamit, Viralkumar & Odedra, Mulraj & Ahlawat, A.R. & Prajapati, Vijay & Patel, Helly & Gamit, Krishna. (2021). Constraint faced by dairy farmers in different state of India: An overview. Journal of Entomology and Zoology Studies. 9. 1901-1906. 10.5281/zenodo.4556421.

Darwai, V.R., Biswal, D. & Mandavgane, S.A. A framework for evaluation of sustainability index of small scale dairy farms in India. Environ Dev Sustain (2024). https://doi.org/10.1007/s10668-024-04742-y

Cariappa, A. G. A., Chandel, B. S., Sankhala, G., Mani, V., Sendhil, R., Dixit, A. K., & Meena, B. S. (2021). Prevention is better than cure: Experimental evidence from milk fever incidence in dairy animals of Haryana, India. arXiv. https://arxiv.org/abs/2106.03643

Gaillard, C., & Dervillé, M. (2022). Dairy farming, cooperatives and livelihoods: Lessons learned from six Indian villages. Journal of Asian Economics, 78, 101422. https://doi.org/10.1016/j.asieco.2021.101422

Thotapat, W., et al. (2024). Systematic review on Internet of Things in smart livestock farm management systems. Sustainability, 16(10), Article 4073. https://doi.org/10.3390/su16104073 Valvekar, M., Chavas, J. P., Gould, B. W., & Cabrera, V. E. (2011). Revenue risk management, risk aversion and the use of Livestock Gross Margin for Dairy Cattle insurance. Agricultural Systems, 104(9), 671–678. https://doi.org/10.1016/j.agsy.2011.07.004