

Perceived Benefits, Existing Opportunities, and Barriers of Using Avocado in Agri-Food Systems in Lemo Woreda, Hadiya Zone, Southern Ethiopia

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1. Introduction

- The overall dietary diversity in Lemo woreda is limited among rural households. Therefore, agricultural crop diversification is necessary to promote food security, nutrition, and income.
- Currently, there are efforts to enhance avocado production and marketing in different parts of Ethiopia.
- The Africa RISING project has managed to increase the number of smallholder farmers growing avocado tree by introducing highyielding varieties in southern Ethiopia.

2. Objectives

To explore the potential benefits of incorporating avocado into the agri-food system, considering the value chain among smallholder farming communities.

3. Methods/approaches

- A qualitative study with a total of 10 FGDs (Farmer Group Discussions) with beneficiaries and 7 KIIs (Key Informant Interview) were conducted in Lemo woreda.
- Data collection was led by an expert who is experienced in conducting nutritional and agricultural studies.
- Probing questions such as 'What?' 'Why?' and 'How?' were used.
- Information was gathered until a saturation level was achieved.
- All the discussions were recorded, and the study team read the transcription and listened to the recorded discussion several times.
- Analysis was conducted thematically.
- Transcripts were reviewed to develop codes related to the topics of the research questions.
- Based on conceptual similarity, codes were divided into categories and subcategories.

6. Acknowledgement

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4. Findings

The findings were organized into three themes

- 1) Avocado production opportunities and challenges include environmental, individual, and institutional factors that threaten avocado production and existing opportunities for production sustainability.
- Suitable environment and climate were the opportunities identified by all participants.
- Water shortages, climate change and animal/insect/pest meddling were main challenges under economic factors.
- 2) Avocado production benefits and consumption challenges

Table 1. Avocado production benefits and consumption

Theme	Category	Sub-category		Codes
Avocado	Economic	Significant source of	-	A good source of income especially for women
production	Benefit	HH income	-	The income used to buy food and non-food item
benefits and			-	The income generated saved selling of livestock
consumption	Household	Recognized as HH	-	Consumed as primary food alone
challenges	level (HH)	meal	-	Helped to consume staple foods (Enset)
	consumption		-	Replaced cabbage and kale as a side meal
	Perceived	Avocado health	-	Provide good growth and strength for children
	health	benefits	-	Consumed without any risk by diabetic and people with blood
	benefit			pressure
	Challenges	Small production	-	Mainly consumed at household level
		Lack of adequate	-	Available but expensive
		money	_	High price during dry season
		Poor storage facility	-	Difficult to keep fresh for longer period once ripen
			-	Manage the fruits while on the tree
			-	No modern mechanism to improve the shelf life of ripen fruit

3) Market opportunities and challenges

Table 2. Market opportunities and challenges.

Theme	Category	Sub-category	Codes
Market	Opportunity	Encouraging market	- Proximity and road access to market
opportunity and challenges		demand	 No significant problem to sell the fruit with partial negotiation Sell to Juice Houses in the nearby town
	Challenges	High transportation cost	- High cost of transport to the town
		Poor market network	- No attractive price during production season
			- Prefer to consume it in the house when the cost is low
			- Cost fluctuates seasonally
			- Feed to livestock during surplus production
			- Inadequate ripen technique

5. Conclusion/messages

Africa RISING introduced avocado varieties helped farmers in Lemo district to diversify their source of income and changed the household level food consumption habit. However, there is a gap in the market system establishment for avocado sales. Therefore, creating market opportunities is vital to rip the benefits.







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