

Economic analysis of wheat and milk value chains in North West Mt. Kenya



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Introduction

Agriculture Value Chains are significant in Kenya's **Economy**

- 33% contribution to Gross Domestic Product.
- Main source of livelihood for 70% of rural population.

Agro-food value chains under pressure to produce more food due to:

- Population growth
- Changing climate
- Increased urbanization and change in consumption patterns

Contribution of value chains to food security and poverty reduction still unachieved:

- Need to adapt agro-food value chains to respond to these changes
- Shift focus to national and local value chains
- Focus on value chain contribution to household welfare



Methods

Multistage stratified sampling of producers, traders, processors, distributors and retailers

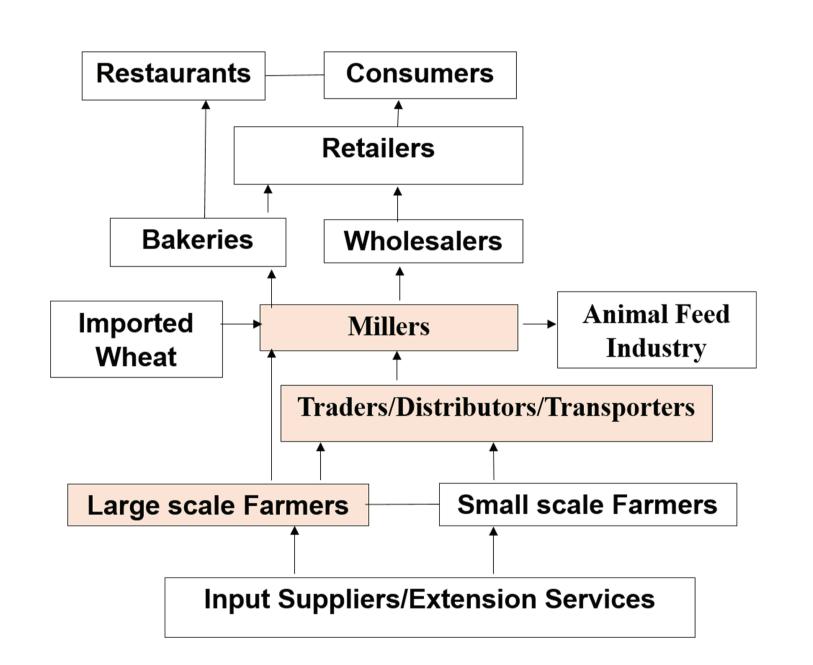
- Milk Value Chain 97 respondents
- Wheat Value Chain 103 respondents

Value chain analysis:

- Mapping activities, actors, product flows
- Establishing value added and distribution
- Governance and constraint analysis

Results

Wheat value chain flow and actors



• Large scale farmer: Benefits from economies of scale, access to production

resources

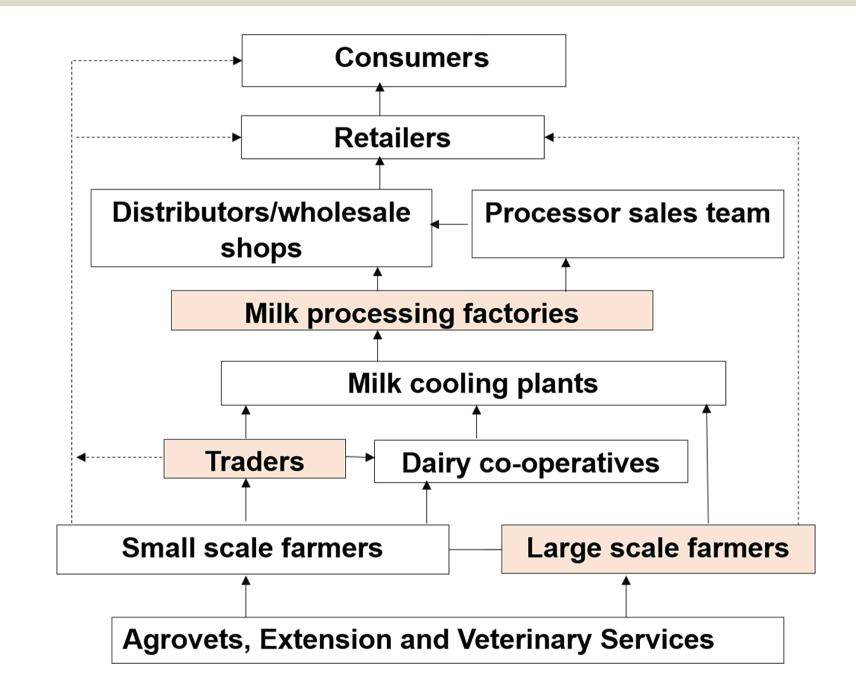
- Trader: Determines smallholder farm gate price, important link
- Miller: Price maker, gains from by-products

Conclusions

- Small scale farmers (also smallholders) obtain low yields, lower prices and the least value in the value chains.
- Smallholders face multiple constraints compared to other value chain actors.
- Value chains exhibit a dualistic marketing structure with both formal and informal components.
- Governance structure of the value chains revealed three power centres; large-scale producers, traders and processors.
- More support for the smallholders needed to close on potential yield gaps, achieve equitable value and better negotiating power.

Results

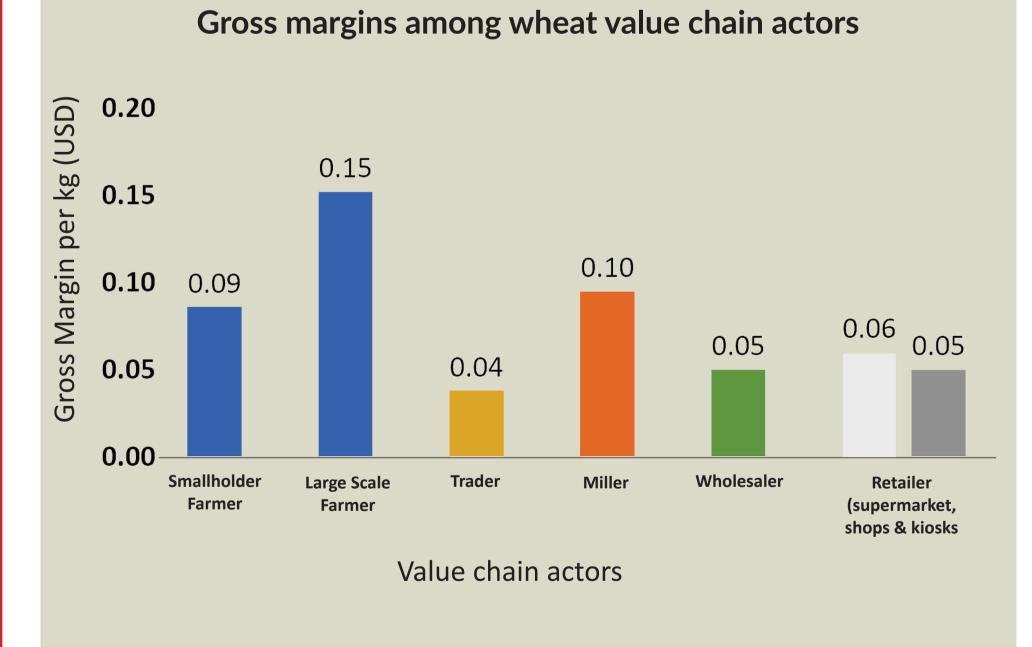
Milk value chain flow and actors



- Large scale farmer: Benefits from economies of scale, access to production resources
- Trader: Determines smallholder farm gate price, important distributor and

link, multiple roles

• Processor: Price maker, gains from technology



Gross Margin per kg Yields per acre

USD 0.15

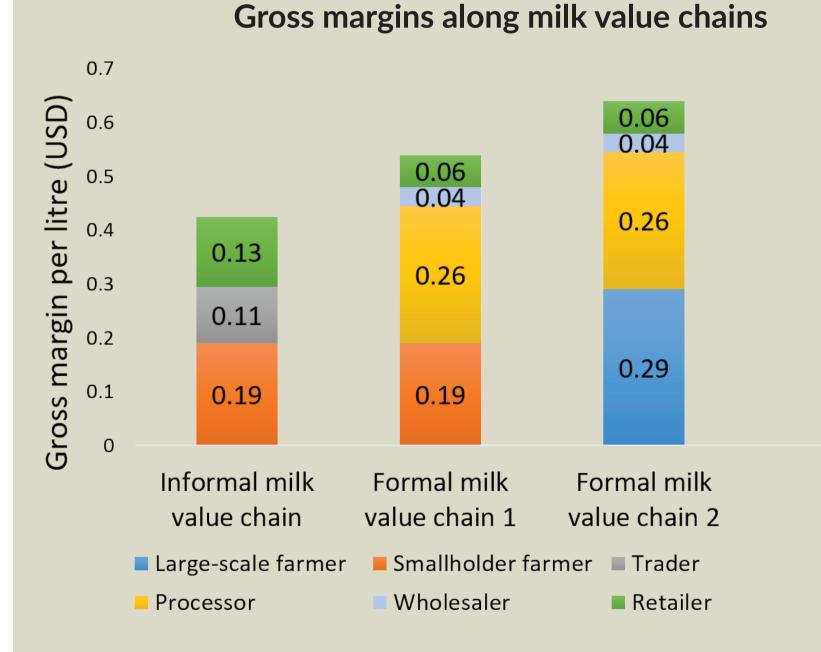
 Smallholder USD
Smallholder 9 bags per acre 0.09 (26% of VC value) Large scale farmer

• Large scale farmer 19 bags

Cost of production • Smallholder USD

159 • Large scale farmer **USD 267**





Gross Margin per

 Smallholder USD 0.19 (38% of VC value)

 Large scale farmer USD 0.29

Yields per cow

 Smallholder 10 Litres

• Large scale farmer 19 Litres (up to 55 Litres)

Cost of production per litre

• Smallholder USD 0.15

• Large scale farmer USD 0.12

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