

Seasonality and Profitability of rice value chains for smallholder farmers at Nkhate Irrigation Scheme in Southern Malawi

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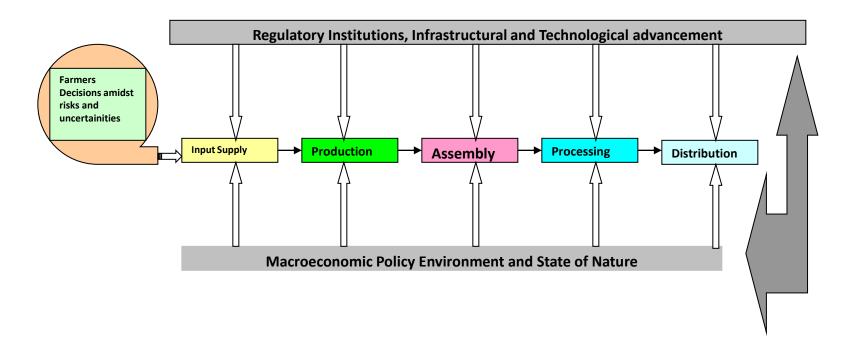
Introduction



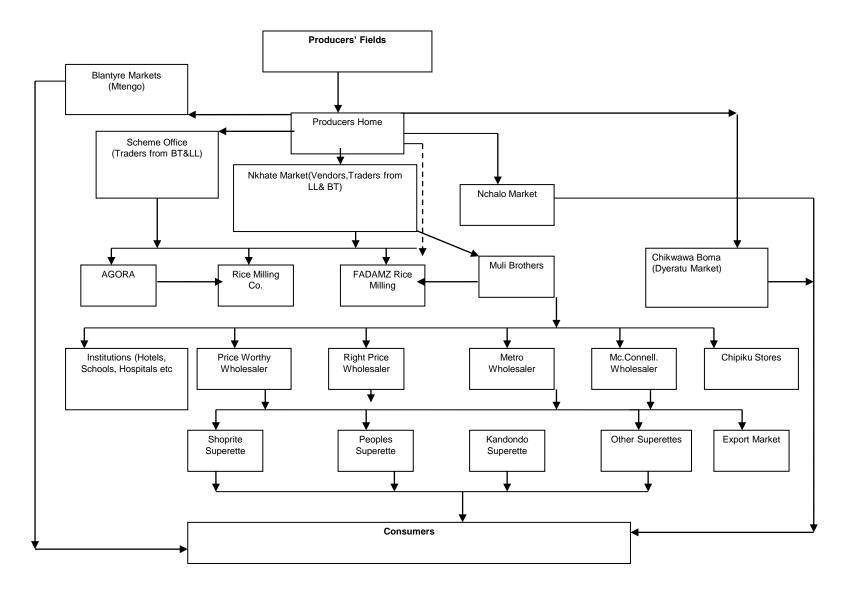
Nkhate Irrigation Scheme



Conceptual Framework



Value Chain Map for Nkhate



Research Question

 Does the intra annual, seasonal rice price changes affect the profitability of rice smallholder farmers?

Data

$$n = \frac{Z^2(1-p)p}{e^2} = \frac{1.96^2(1-p)p}{0.05^2}$$

$$n = \frac{1.96^2 (1 - 0.18)0.18}{0.05^2} \cong 228$$

Due to time and resources constraints the sample size of 150 rice farmers was used. This accounts for about 65.7% of the calculated sample size.

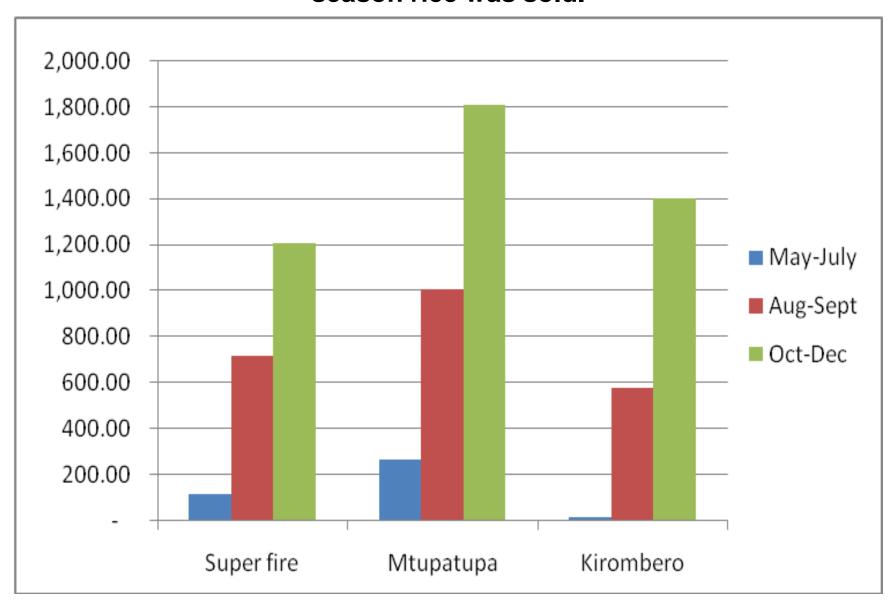
Discussion of Results

Table: Mean farmers' gross margins [1] for each rice variety by season rice was sold

Season	Super fire	Mtupatupa	Kirombero
May-July	116.66	266.47	15.24
August-September	718.17	1,009.15	578.26
October-December	1,210.70	1,810.44	1,402.19

These gross margins were calculated in US\$ ha⁻¹, the exchange rate used was MK140 against 1US\$ in 2008

Figure 1.0 Mean farmers' gross margin for each rice variety by season rice was sold.



Conclusions and Recommendations

 Rice gross margins were higher when farmers sold their rice in the seasons August-September and October - December.

 Policy implications:- rice storage and selling in the seasons when rice prices are reasonably higher

Cont'd

 Need for policy interventions to promote rice storage by smallholder farmers

 The farmers' organisations can provide what is being referred to as a commodity warranty to farmers.

Commodity Warranty Scheme.

End of Presentation

- Thank You for your Kind attention.
- God bless you!

