

TEGEMEO INSTITUTE

EGERTON



UNIVERSITY

Introduction & Workshop Objectives

*Workshop on “Status, Trends and Opportunities in Smallholder Agricultural Productivity and Market Participation for Improved Food Security and Incomes”
Othaya Social Hall, Othaya, 27th July, 2011*

Contributing to the Transformation of the Agricultural and Rural Sectors in Kenya

Introduction

▶ Tegemeo Institute

- Policy research Institute under Division of Research & Extension of Egerton University
- Tegemeo Institute established through Statute XIX (h) of Egerton University Act, 1987 (CAP 214)
- Policy research and analysis since 1990
 - ▶ Leading centre in ag policy research
 - ▶ Reservoir of knowledge on rural livelihoods
 - ▶ Large network of collaborators/partners

Mandate

To conduct policy research and disseminate the findings in an objective manner

Vision

A people forever free from hunger and poverty

Mission

To conduct pro-active policy research and advocacy that enhance food security, create wealth and sustain the environment

Values

- ✓ *Commitment to quality*
- ✓ *Integrity, transparency and accountability*
- ✓ *Teamwork*
- ✓ *Empowerment*
- ✓ *Consultation*

Tegemeo's Main Activities

- ▶ **Research:** To generate and promote evidence-based research to inform and influence policy direction on Kenya's agricultural and rural sectors.
- ▶ **Outreach** – work with policy makers and other stakeholders to identify appropriate policy options
- ▶ **Monitoring and Evaluation:** to monitor changes in the Ag sector and assess impacts of alternative policies for Government, development partners, and other stakeholders
 - Household surveys (rural and urban)
 - Baseline Studies
 - Impact/effects assessment
- ▶ **Capacity Building**

Monitoring and Evaluation

- ▶ Key indicators in Rural and Urban sectors using household level data
 - Rural hh panel data -1997 -2010 (trends in productivity, input use, incomes etc)
 - Urban hh data -2005, 2009 (consumption and expenditures patterns)
- ▶ M & E studies for government, development agencies, etc

Workshop Objectives

Overall Goal

- ▶ Give feedback to the communities/hhs that have given us data for the last over 10 years
- ▶ To provide some evidence from the Tegemeo data that could:
 - Inform the central and county governments
 - the status of the agric. sector and farm households
 - possible pathways to development
 - critical bottlenecks to such development
 - Provide a good/reliable baseline which county governments can use to track progress in their regions

Specific Objectives

- Present the current status of key household and agric. indicators in Nyeri and changes over the last 10 years
- Identifying positive trends/opportunities and possible solutions/interventions to nurture growth and mitigate negative trends
- Enable communities to draw comparisons between their locality and other regions and assist them in identification of possible interventions to unlock their potential
- Provide a forum for key stakeholders (farmers, civil society, public sector etc) to discuss and exchange ideas on how to improve agriculture & rural livelihoods at the regional/county level

Data and Methods

Data

- Tegemeo (TAPRA) household panel survey data
 - ▶ 10 years (2000, 2004, 2007, 2010)

Sample design and selection

- Nationwide
- Based on AEZ and population density

Analysis

- Trends over the years
- Across regions/AEZ

Tegemeo Panel Sample

Agro-ecological zone	Districts	No. of hhs
Coastal Lowlands	Kilifi, Kwale, T/taveta	83
Lower Midland (3-6)	Machakos, Mwingi, Makueni, Kitui, Kisumu, Siaya	246
Lower Midland (1-2)	Bungoma, Kakamega	145
Upper Midland (2-6)	Makueni, Bungoma, Kakamega, Nakuru, Trans Nzoia, Muranga, Nyeri	246
Upper Midland (0-1)	Vihiga, Kisii, Meru, Muranga	225
Lower Highland	Uasin Gishu, Bomet, Nakuru, Narok, Nyeri	225
Upper Highland	Uasin Gishu	39
Lowland	Laikipia	34
Overall sample		1243

Nyeri County

Agro-ecological zone	Division/ District	Location	S/location	Village
UM2-6 - Upper midland 2-6	Mukurweini	Muhito	Gaturia	Gachiro
				Kiangoma
			Gatura	Rugongo
LH - Lower highland	Othaya	Chinga	Mumbuni	Kianguru
				Kahuteri
			Kathera	Kiangombe
				Nyakone

N/B: Data mainly used at National level but disaggregation at county level could provide some critical information and insights

Audience for Outreach

- ▶ The farming community and other major stakeholders including
 - the regional government
 - political leaders
 - agricultural sector ministries
 - research institutions
 - development agents (NGO's, donors) who have on-going or planned activities in the areas covered

Programme

Session II

- ▶ Presentation by the Tegemeo team
 - Socio-economic characteristics
 - Agricultural productivity of key farm enterprises
 - Input use/adoption

Session III

- ▶ Presentation by the Tegemeo team
 - Market Participation
 - Household incomes
 - Access to Infrastructure

Session IV

- ▶ Plenary Discussion & way forward
 - ▶ All participants
 - ▶ Closing remarks

Recognition

- ▶ On behalf of Tegemeo team, support from various organization and institutions are recognized
 - Farmers who willingly gave us the information we will present today
 - Local/regional government
 - ▶ Administrative
 - ▶ Government Ministries – Agriculture, Livestock, Cooperative Development
 - Institutional support from Egerton University
 - USAID for the support of the TAPRA program under which the data used in the analysis was collected and is maintained
 - ▶ Support for this workshop
- ▶ Most of all appreciation to you all for availing yourself today

Welcome again and thank you!



Methods of Study

▶ Sample design and selection

- proportional sampling based on population
- census data used to get populations of all non-urban divisions in the country
- divisions were assigned to one or more AEZs
- two or three divisions chosen in each AEZ based population
- Diversity in cropping patterns also a criterion
- Divisions fell within 24 districts

Methods of Study

- ▶ Sample design and selection
 - divisions were re-grouped into 9 agro-regional zones
 - a hybrid of broad AEZs, population and administrative boundaries



Tegemeo Panel Sample

Agro-Regional zone	Districts	No. of hhs
Coastal Lowlands	Kilifi, Kwale	74
Eastern Lowlands	Machakos, Mwingi, Makeni, Kitui, Taita-Taveta	141
Western Lowlands	Kisumu, Siaya	149
Western Transitional	Bungoma (lower elevation), Kakamega (lower elevation)	146
Western Highlands	Vihiga, Kisii	128
High-Potential Maize Zone	Kakamega (upper elevation), Bungoma (upper elevation), Trans Nzoia, Uasin Gishu, Bomet, Nakuru, Narok	332
Central Highlands	Nyeri, Muranga, Meru	241
Marginal Rain Shadow	Laikipia	34
Overall sample		1245