



Evaluation and promotion of existing Seed Supply systems for Vegetatively Propagated Crops In Central and Eastern Kenya

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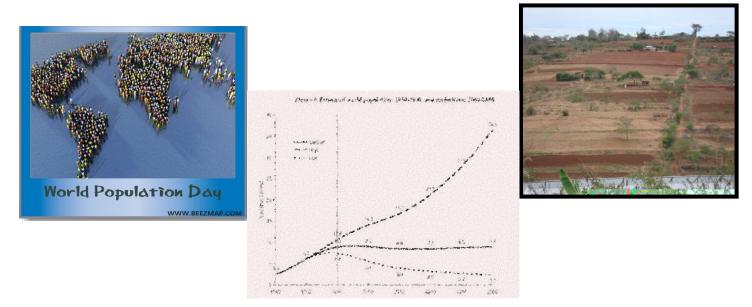
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Introduction



 Food insecurity and poverty are increasingly becoming the world's biggest challenges with an increasingly growing population, land degradation, climate change among others



Source: Internet



Importance of Vegetative Crops



 Vegetatively propagated crops (potato, sweetpotato, cassava and yams) play an important role in addressing food security and poverty in Africa

 80% pro-poor smallholder farmers depend on agriculture in Kenya (contribution of veg in Kenya)

Challenges in the sweetpotato value chain



Farmers are faced with many challenges including:

Lack of access quality seed of improved varieties

☐ Timely availability (planting time)

□ Poor product value addition

Poor market and market linkages for products



Objective



- Identify existing seed supply systems for vegetatively propagated crops in Central and Eastern Kenya
- Promote the most efficient and sustainable seed supply system for improved crop productivity and marketing

• The study focused on sweetpotato (*Ipomoea batatas*) as one of widely grown vegetatively propagated crop



How was this done?



Sites:

- ☐ Central (Nyeri, Mukurweini and Nkubu) areas
- ☐ Eastern (Kitui, Matuu and Yatta areas) regions of Kenya

Selection: based on previous participation on research and extension activities on sweetpotato

Data Collection

- >Secondary data- Literature review
- ▶Primary data Individual and key informant interviews



Data Collection



 Individual household questionnaires



- Focus group discussions
 - Gender considerations were put in place



Data analysis: SPSS and Excel

Data analysis was disaggregated by gender and descriptives - frequency



Data Analysis



Data was analysed using SPSS and Excel

□The results were disaggregated by gender and descriptives frequency



Demographic information



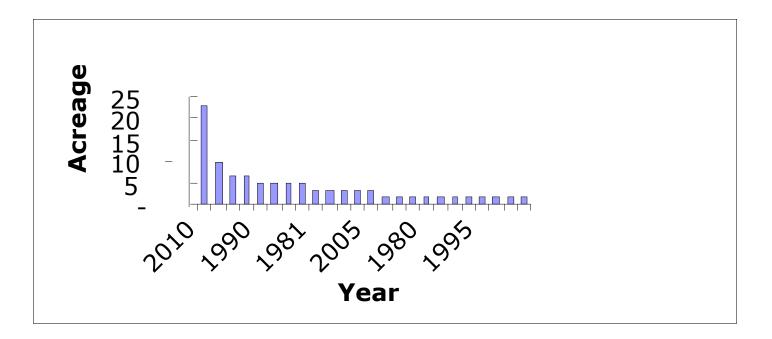
Gender	% Responses	Average age (Years)	Level of Education (%)			
			Primary	Secondary	Tertiary	None
Male	36	49	13.6	20.3	1.7	0.0
Famala	64	39	39	15.3	5.1	5.1
Female Mean (%)	50	44	26.3	17.8	3.4	2.6



Farmers perceptions of sweetpotato



- Out of 207 respondents, 97.1% appreciated the crop as a solution to food security and poverty alleviation
- Upwards trend in sweetpotato production in terms of acreage



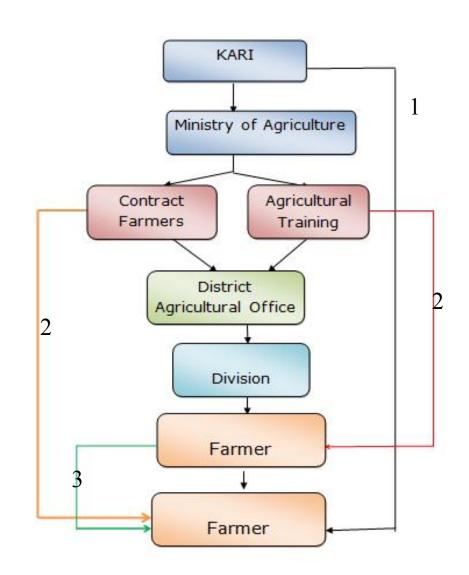


Seed delivery model



Three key seed delivery systems were identified

- 1. Research to farmer
- 2. Research to Ministry to farmer
- 3. Farmer to famer exchange





Farmers sources of seed



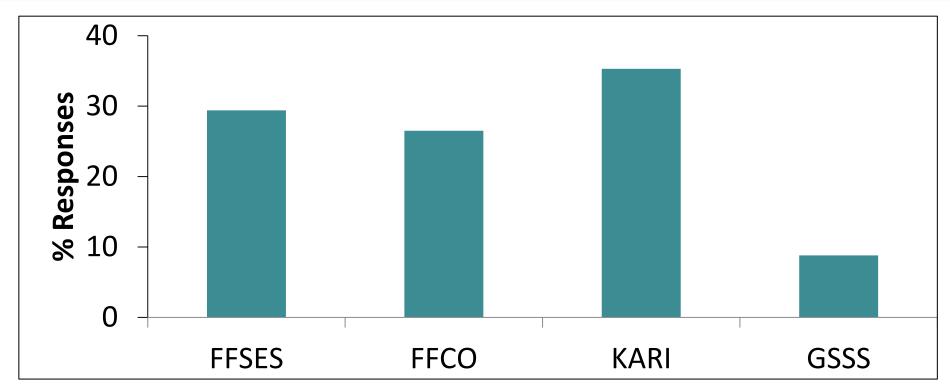


Figure 1: Main Sources of seed/planting materials at farm level

Key: FFSES-Farmer seed Exchange (Traditional)

FFCO- Farmer to farmer Commercial orientation

KARI- Kenya Agricultural Research Institute

GSSS- Government (MoA)



Conclusion



- The farmers have good levels of education which make communicating issues of seed manageable
- Vegetatively propagated crop (sweetpotato)
 production and use has been on increase from less
 than 5 to above 20 acres per household
- The fact that farmers are willing to pay for seed also indicates its importance

Conclusion cont......



 Most (97.1%) of the farmers indicated the need to have a commercial oriented seed system based on identified challenges from other systems

 Research (KARI) so far remains the major source of seed for the farmers



Recommendations



- Seed impacts on every segment of the value chain
- Farmer to farmer seed supply system with commercial orientation has exhibited a successful story



Figure 3: Examples of farmer seed plots



Recommendations cont.....



- Capacity building for farmers on seed management, marketing and market linkages has to be enhanced
- Well organised check-off systems need to be put in place as farmers embrace seed production and distribution
- Seed policing to be put established for reduced pests and diseases incidences



Well fed Nation is a Happy Nation





Thank you for Listening