

**Sustainable
sweetpotato pre-basic
seed production Y3
Progress review: June
– November 2016**

SASHA

Sweetpotato Action for
Security and Health in Africa



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Sweetpotato Seed Systems Community of Practice: Sixth
Consultation- Sustainable Pre-basic Seed Production –
Progress Review. Nairobi 6-7th December 2016



Production: capacities?

Country: KENYA

Period: current status

Facilities	No. units	Irrigation (Y/N)	Total m ²	Method (poly, pot, bench/trough, open)	RMT/ Conventional	Total no. of plants	Multiplication Rate
Screen house	2	Y	288	bench	Conventional	5600	2 months
Mobile net tunnels	0	-	-	-	-	-	-
Open field multiplication	0	-	-	-	-	-	-
Basic seed multipliers	-	-	-	-	-	-	-

Production: targets vs actuals?



Country: KENYA

Total for all varieties: (4 Varieties- Kabode, Vitaa, Chebolol, Kenspot 1)

Period: **June 2016 – November 2016**

TC activities	Unit (& size)	Planned No. (June 16 – May 17)	Achieved (June – Nov 16)	% achievement
TC initiation	Plantlets	700	496	70
TC micro-propagation	Plantlets	2600	1030	40
Hardening	Plants	2600	1030	40
Screen house multiplication	Cuttings	5600	5900	105
Mobile net tunnel multiplication	Cuttings	-	-	-
Open field multiplication	Cuttings	-	-	-

Comments on production targets



- Actions taken to increase multiplication rates:
 - **Trailing of vines using wires on the benches**
- Actions to reduce costs of production:
 - **Reduce TC multiplication and increase screen-house production**
- Key challenges:
 - **Marketing of vines**
- Lessons to share:
 - **Reduce TC multiplication and increase screen-house production top reduce cost of production**
 - **Trailing of vines using wires on the benches to increase multiplication rates**
 - **Failing to plan is planning to fail**

- No. of varieties under multiplication: **Three (Vita, kabode, chebolol)**
- No. of plants virus indexed: **(74 samples grafted on / Setosa)**
 - No. found negative (and %); **awaiting serology**
- % tested within last 6 months and results
 - Variety:.....Chebolol.....result: **awaiting serology**
 - Variety:.....Kabode..... result: **awaiting serology**
 - Variety:.....Kabode..... result: **awaiting serology**
- Seed standards and inspection protocol
 - Current status: **Seed and plant variety act has been reviewed and sweetpotato has been put under schedule 2 (mandatory certification)**
 - **Inspection protocol under review**

PBS production requirement



Estimated demand for pre-basic cuttings for next season (45,000 for March 2017-June 2017)

No. of PBS cuttings required: 45,000

Proposed prices for each class or seed:

Price	Pre-basic	Basic	QDS	Other	Farmer-to-Farmer
Local currency	35	-	-	-	-
US\$	0.35	-	-	-	-

For each class – give length of cutting

Pre-basic: **3 node**

Basic: **30 cm**

QDS: -

Other: -

Stakeholder meetings



- Date of last stakeholder meeting: **15th to 16th November 2016**
- Number and type of stakeholders
 - Number: **22**
 - **Type:** (CBOs, GOK, CIP, KALRO, seed merchant, farmer)
 - **Seed demand projection and policy dialogue**
- Main agenda items
 - To determine the seed demand projection of vines at various production stages
 - To provide highlights of costing of seed at the various stages (pre-basic seed production)
 - To gather feedback on the proposed policy on sweet potato production and dissemination of roots and tuber crop strategy.
 - To gather feedback from previous action points from the workshop held in Bungoma on 10th -11th February 2016
- Action and follow up points:
 - Give farmers marketing skills, Mobilisation of farmers for training
 - Linking farmers to 5 ltd companies identified for marketing , Promotion through Media
 - Identifying external markets, -
 - Identify number of ratoons for economic production, nettunnels
 - Effects of rationing on beta carotene, taste and size of roots, Odinga ,kenspots
1, SPK004, Chebololo, Bungoma, Counties to form committees
 - Alternative uses; Fodder and silage
 - Meeting to review certification standards (SEED STANDARD REVIEW AND FINALISATION)
- **Contact made with National Seed Traders Association: y/n**
 - Links with registered seed enterprises-**Linkages with CREADIS seed merchants and SEEWO potential seed merchants**

Business plan: implementation June – November 2016



	Political	Technical	Administrative	Socio-cultural
Actions implemented	<ol style="list-style-type: none"> 1. A Senior management meeting was held on 25/10/2016 to on the revolving fund mechanism. 2. The committee approved 20% of the revolving funds to be utilized budget for pre-basic seed production 	<ol style="list-style-type: none"> 1. Real costing activity was carried out and pre-basic seed cost determined and reviewed with the help of CIP agro-economist 2. Introduction of white fleshed farmer variety (chebolol) 3. Virus testing of 74 samples of new variety (chebolol) and Stage 3 (kabode and vitaa) 4. Re-accreditation of the lab 	<ol style="list-style-type: none"> 1. A sub-ledger account under KEPHIS has been opened and operational for the revolving funds 2. The PI was changed to Florence Munguti –Ag Officer in Charge (PQBS) 	<p>-Awareness creation in IPC, Nairobi international trade fair, Kitale show</p>

NB Review guidance note for matrix on institutionalisation

Revolving fund: status



1. Composition and operation of revolving fund agreed and documented? **Y**
2. How often has RF management committee met over reporting period? **Once**
3. Revenue received from sale of cuttings for period June to November 2016 (or by month – 21st July 2016 sold **540 Cuttings=27,000Ksh**)
4. Status of budget for pre-basic seed production for 2016/2017:
 - a. Give total budget for PBS production: **1,675,000 KSh** and then the amount to be requested from RF- **335,300 KSh**
 - b. Submitted to RF or senior management: **9/11/2016**
 - c. Approved: **28/11/2016**
5. Percentage of total production cost which will be met by revolving fund: **20% (August to November 2016)**

^a. NB this budget is for recurrent costs for pre-basic seed production (i.e. not the total project budget)

Training – in-country (June – Nov. 2016)



Date	Topic	No. participants (M/F)	Training materials available	Comments
1 st to 3 rd August 2016	ISO 17025:2005 Implementation training	M=11 F=10	Printed presentations slides in a folder	Training was useful in preparation for accreditation of two other labs in the station- Bacteriology and Molecular Labs

Jan – May 2017: key areas for strengthening



- Technical
 - Refresher trainings of technical staff and culture techniques, greenhouse management/production. This will ease in succession of activities and team work in the pre-basic seed production
 - Adoption of modern and quicker virus indexing technologies
- Institutional

KEPHIS needs to be marketed as the source of clean sweetpotato pre-basic seed
- Financial
 - Fast tracking of budget approvals and disbursements of funds

2 BEST PHOTOS



Activity: Trailing of vines

Location and Date: KEPHIS PQBS propagation room on 21st November 2016

Name of person in photo: I.Obare & S.Khisa

Photo credit: E.Ngundo



Activity: Simple trials for screenhouse production

Location and Date: KEPHIS PQBS propagation room

Name of person in photo: I.Obare

M.Mwangangi & S.Khisa

Photo credit: E.Ngundo