

**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 6-7<sup>th</sup> December 2016**

# Production: capacities?

Country: Tanzania

Period: current status June to November 2016

Facilities	No. units	Irrigation (Y/N)	Total m <sup>2</sup>	Method (poly, pot, bench/trough, open)	RMT/Conventional	Total no. of plants	Multiplication Rate
S. house – UK	3	Y	634	B	RMT	4,072	1:5
-KBH	3	Y	675	T, P, B	RMT	16,875	1:5
-UY	1	Y	361	T	RMT	7000	1:5
Open field multiplication-KB	1	Y	1202	O	RMT	29,950	1:4

# Production: targets vs actuals?



Country: Tanzania

Total for all varieties: 9

Period: **June – November 2016**

<b>TC activities</b>	<b>Unit (&amp; size)</b>	<b>Planned No. (June 16 – May 17)</b>	<b>Achieved (June – Nov 16)</b>	<b>% Achievement</b>	
TC micro-propagation	Plantlets	NA			
Hardening	Plants	NA			
S. house multiplication-	UK	Cuttings	200,000	282,000	141%
	KBH	Cuttings	200,000	108,750	54.4%
		Cuttings	100,000	Not yet	0%
	UY				
Open field multiplication	Cuttings	50,000	29,950	60%	

# Comments on production targets



- Actions taken to increase multiplication rates:
  - Applying Farm yard Manure, Nitrogen fertilizers and YARA Mira
  - Rapid Multiplication
- Actions to reduce costs of production:
  - Installation of drip irrigation system (1 screen house)
  - Mulching (cover soil)
  - Open field to cover management cost
  - Reduce sunlight by black nets (Reduce evapotranspiration)
- Key challenges:
  - Lack reliable water for irrigation, Insect pest (Mealy bag)
- Lessons to share:
  - Production of seeds should focus on needs from farmers: Sensitization is important before screen house planting .
  - Platform initiation: Eg WhatsApp group

- No. of varieties under multiplication: 6 (UK), 9 (KB) & 3 (UY)
- No. of plants virus indexed (grafted on *I. setosa*)
  - UK 7 plants from (Kabode, Polista, UKG 05 and Naspot 11) but no result yet
  - Uyole
- Samples have been collected from the three zones and lab results are not ready
- Seed standards and inspection protocol: Follow TOSCI protocol
  - Inspectors from Morogoro and Mwanza have inspected Kibaha and Ukiriguru respectively

# PBS production requirement



**Estimated demand for pre-basic cuttings for next season (December 2016 to January 2017): KBH 200,000, UK 150,000 & UY...100,000.....**

**Proposed prices for each class or seed:**

Price	Pre-basic	Basic	QDS	Other	Farmer-to - Farmer
Local currency (Tshs)	(Uk)30/= (Kb)25/= (Uy)30/=	20/= 25/= 25/=		16/=	16/= 50/= 50/=
US\$	0.013-0.015	0.01-0.013		0.008	0.008-0.025

- Pre-basic: =..... UK 30 cm .....=KB 20cm.....=UY.....30cm
- Basic:=.....UK 30cm .....=KB 30cm.....=UY.....30cm

# Stakeholder meetings



	Date of last stakeholder meeting	N & type of stakeholders	Main agenda	Action & follow up points	Contact made with National Seed Traders Association: y/n
U K	7 & 18 <sup>th</sup> Nov, 2016	-Number: 16 -Type: Media, Policy maker & multiplier	-Awareness creation -Availability of materials -Prepare multiplier to collect materials	-District identified multipliers -Multiplier purchased materials - Follow up establishment of nurseries	(a) Potential collaboration on SP seed production : YES (b) Links with registered seed enterprises: NO
K B	19 <sup>th</sup> Aug 2016	Number: 45 -Type: Media, TOSCI, extension officers, secondary multiplier & farmers	-Awareness creation -Availability of materials -Prepare multiplier to purchase materials -To create linkage among stakeholders	-WhatsApp group formed & most of stakeholder joined -To follow up & make sure stakeholder use clean seeds	a) Potential collaboration on SP seed production : YES  (b) Links with registered seed enterprises: NO
U Y	3 & 4 Nov, 2016	Number: 23 -Type: secondary multiplier & farmers	-Awareness creation -Availability of materials -Prepare multiplier to purchase materials	--Availability of materials on time -Prepare awareness messages	a) Potential collaboration on SP seed production : NO  (b) Links with registered seed enterprises: NO

# Business plan: implementation June – November 2016



	<b>Political</b>	<b>Technical</b>	<b>Administrative</b>	<b>Socio-cultural</b>
Actions implem ented	1. Business plan in line with institute policy and national political concern of food security and income	1. Correct use of inputs and selling of vines 2. Screen house vine plots subsequent activities management and data collection 3. irrigation water use (quantity) and labour data collection	1. Coordination and supervision of data recording (hard copy) 2. Purchase of Microsoft office 2016 software which is compatible with business model data 3. Positive support from higher level authority	1. Awareness messages in Agric. shows, leaflets, banners 2. Affected by nature of crop



# Revolving fund: status



1. Revolving fund agreed and documented (Self Help Fund)
2. RF management committee met over reporting period; Once (UK), if there is need raised (KBH)
3. Revenue received from sale of cuttings for period June to Nov. 2016
  - (a) KBH, T.shs 17,500 from farmers. But 1,792,000, 836,750 and 10,000 are expected to be paid by World vision, VISTA and BNBf respectively.
  - (b) UK, Tshs 117,300 (3600 cuttings). Have order from World vision of 11,000 cuttings (Tshs. 220,000)
1. Status of budget for pre-basic seed production for 2016/2017:
  - a. The amount to be requested from RF for KBH 1,790,000
  - b. Not Submitted
  - c. Approved: Not Yet
1. Percentage of total production cost which will be met by revolving fund

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



Date	Topic	No. participants (M/F)	Training materials available	Comments
KBH 17-18/10/2016	<ul style="list-style-type: none"> <li>Seed multiplication, Pests and diseases</li> <li>Pests and diseases management</li> </ul>	(M8/8F)	<ul style="list-style-type: none"> <li>-Seed production manual</li> <li>-Demonstration plot visit</li> </ul>	We expect those trained will collect vines from Mid December-Early January for multiplication to meet Planting season
UK 25-27/6/2016	Business plan	(4M/3F)	-Business plan and data documentation	Data entry was late because of excel software 2016
UK 18/11/2016	Seed multiplication, Pests and diseases control	(16M/6F)	-seed production techniques, insect pest / disease, control measures	The knowledge obtained will help to train other farmers in the community
UY 4/11/2016	Basic seed production techniques, constraints and opportunities	(15M/8F)	-Seed multiplication manual	The knowledge obtained will help to train other farmers in the community
				Slide No. 10

# Jan – May 2017: key areas for strengthening



- Technical
  - Demo plots establishments
  - Finalize installation of drip irrigation
  - Proper data management
- Institutional
  - Reliable water supply
- Financial
  - Utilization of revolving funds

# 2 BEST PHOTOS



Stakeholders in screenhouse  
Uyole  
Dorah Mende



Casual planting vines  
Ukiriguru  
Everina Lukonge