



**Sustainable  
sweetpotato pre-basic  
seed production Y3  
Annual Report: June  
2016 – May 2017**

**SASHA**

**Sweetpotato** Action for  
Security and Health in Africa

Zambia Agriculture Research Institute  
Sweetpotato Seed Systems Community of Practice: 7th  
Consultation- Sustainable Pre-basic Seed Production – SGA  
Progress Review. Mukono Uganda 12<sup>th</sup> June

# Production: capacities?

Period: current status at end of Y3 (May 31, 2017)

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
Screen house	3	y	662	Bucket/trough		6,449	8
Mobile net tunnels	N/a						
Open field multiplication	2	N	1620	Flat beds	Conventional	224,160	6
Basic seed multipliers	2	Y		Troughs	RMT/Conventional	27,067	8

# Production: targets vs actuals?



Names of varieties under pre-basic multiplication:

Period: **June 2016 – May 2017**

<b>Activities</b>	<b>Unit (&amp; size)</b>	<b>Planned No. (June 16 – May 17)</b>	<b>Achieved (June 16 – May 17)</b>	<b>% achievement</b>
TC initiation	Plantlets			
TC micro-propagation	Plantlets	<b>1,250</b>	<b>1,572</b>	<b>126</b>
Hardening	Plants	<b>1,250</b>	<b>1,572</b>	<b>126</b>
Screen house multiplication	Cuttings	<b>150,000</b>	<b>213,280</b>	<b>142</b>
Mobile net tunnel multiplication	Cuttings	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Open field multiplication	Cuttings		<b>1,779,650</b>	

# Comments on production targets



- Actions taken during year 3 to increase multiplication rates:
  - E.g. Increased temperature in new screen house (no shade) has resulted in rapid plant growth
- Actions taken during year 3 to reduce costs of production:
  - E.g. Planting TC plantlets directly into the multiplication bed
- Key challenges for year 3:
  - E.g. Obtaining accurate data
- Lessons to share for year 3:
  - E.g.

# Quality management: June 2016- May 2017



- No. of plants virus indexed (grafted on / *Setosa* and tested with NCM-ELISA)
  - No. found negative (and %)
- % tested over last year and results
  - Variety:.....result:.....
  - Variety:.....result:.....
  - Variety:.....result:.....
- Seed standards and inspection protocol
  - Current status: Available and in use, need revision
  - Are external inspections being conducted for field multiplication: Yes, by the certification authority

# Stakeholder meetings: June 2016 – May 2017, and planned



Date of meeting held	No. participants (M/F)	Types of participant	Main topics	Follow up actions
25 <sup>th</sup> August 2016	7/5	Multipliers, harvest Plus, World Vision, Extension, Research, Seed Certification agency	<ul style="list-style-type: none"> <li>•Pilot seed system for Zambia</li> <li>•Need for quality Seed</li> <li>•Seed demand.</li> <li>•Tour of TC Lab</li> </ul>	Participant providing their requirements in advance

## Planned meetings (June 17 – May 18)

Proposed Date	No. participants	Types of participants	Main topics	Proposed budget
31 <sup>st</sup> August 2017	20	Multipliers, Root producers, NGOs, Extension, Research	<ul style="list-style-type: none"> <li>•Seed quality</li> <li>•Timely seed demand</li> <li>•Promotion</li> <li>•Stakeholder roles</li> </ul>	

# Training – in-country (June 16 – May 2017)



Date	Topic	No. participants (M/F)	Training materials available	Comments
<b>Planned for June 2017 – May 2018</b>				
Date	Topic	No. participants (M/F)	Training materials available	Proposed budget
10–13 Oct. 2017	Training for management of screen houses and net tunnels	12/8	Screen houses, handouts	

# Marketing strategy: June 2017 – May 2018



	Target group	Message & activity	Time period	Channel/s	Resources	Proposed budget	Indicator of success
1.	NGOs/institutions/projects	importance of clean planting material and source	Aug, 2017	Stakeholders meeting, e-mail	Meeting preparation	3,175	Increased demand for clean planting material
2.	Multipliers	importance of clean planting material and source, varietal characteristics	Oct 2017 – May 2018	demo, radio, posters, written	field day preparation, radio scripts, labels, signboards, demo plot materials	2000	Increased demand for clean planting material
3	Root producers	importance of clean planting material and source, varietal characteristics	Oct 2017 – May 2018	Written, demos, radio	field day preparation, radio scripts, labels, roadside/market stall, signboards, demo plot materials	2000	Increased productivity
4	Consumers	Value of OFSP, varietal characteristics	Aug 2017 – May 2018	Radio, written	radio scripts, fliers, recipes	1800	Increased demand for roots



# June 17 - May 2018: key areas for strengthening performance of bizplan



- Technical
  - ....
- Institutional
  - ....
- Financial
  - Implementation of the revolving fund

# 2 BEST PHOTOS

**Mr Levy Chola (Technician) supervising planting TC plantlets directly into the bed and making sure the humidity chamber is put in place at Mansa Research Station. Credit: M. Chiona**

