

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

SASHA

Sweetpotato Action for
Security and Health in Africa



Name, institution: Benard Yada, NaCRRRI, Uganda
Sweetpotato Seed Systems Community of Practice: Sixth
Consultation- Sustainable Pre-basic Seed Production –
Progress Review. Nairobi 6-7th December 2016

Production: capacities?

Country: Uganda

Period: 1st June-30th September, 2016

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	1	Y	145	Wooden trough		9000	5
Mobile net tunnels	N/A	N/A	N/A	N/A		N/A	N/A
Open field multiplication	Acres	Y	2	Ridges	8-10	66,666	8-10
Basic seed multipliers							

Production: targets vs actuals?



Country: Uganda

Total for all varieties: NASPOT 12 O, NASPOT 13 O, Dimbuka-Bukulula

Period: **June 2016 – November 2016**

TC activities	Unit (& size)	Planned No. (June 16 – May 17)	Achieved (June – Nov 16)	% achievement
TC initiation	Plantlets	10	8	80
TC micro-propagation	Plantlets	300	300	100
Hardening	Plants	180	180	100
Screen house multiplication	Cuttings	3000	3000	100
Mobile net tunnel multiplication	Cuttings	NA	NA	NA
Open field multiplication	Cuttings	64,000 (80 bags)	64,000	100

Comments on production targets



- Actions taken to increase multiplication rates:
 - Use of wooden boxes in place of buckets
 - Use of foliar fertilizer (Rapid Grow)
 - Use of organic manure (poultry manure)
- Actions to reduce costs of production:
 - Use of wooden boxes in place of buckets
 - Use MS stock solutions in place premixed MS salts
 - Use of agar in place of phytagel
 - Use of sugar as a carbon source
- Key challenges:
 - Low multiplication rates of Dimbuka-Bukulula in screen house
- Lessons to share:
 - Bigger soil substrate size and fertility increases multiplication rates

- No. of varieties under multiplication: 3
- No. of plants virus indexed (grafted on / *Setosa* and tested with NCM-ELISA) 15 (5 per variety)
 - No. found negative (and %)-Under observation
- % tested within last 6 months and results
 - Variety: 5 result: In process
 - Variety: 5 result: In process
 - Variety: 5 result: In process
- Seed standards and inspection protocol
 - Current status: Published, ready for use by MAAIF

PBS production requirement



Estimated demand for pre-basic cuttings for next season (insert dates of season): Season 1, 2017 (March-September)

No. of PBS cuttings required: 32,000 for 2 acres

Proposed prices for each class or seed:

Price	Pre-basic	Basic	QDS	Other	Farmer-to-Farmer
Local currency	9,900,000	12,375,000	84,375,000		160,750,000
US\$	3,000	3,750	25,560		51,100

For each class – give length of cutting

Pre-basic: 10 cm

Basic: 10-20 cm depending on variety

QDS: 25-30 cm

Other

Stakeholder meetings



- Date of last stakeholder meeting:
- Number and type of stakeholders
 - Number: 37
 - Type: Vine multipliers, MAAIF Crop Inspectors, CIP, HP, NARO, NGOs
- Main agenda items
 - Create awareness on the role of clean seed in enhancing productivity
 - Identify key partners to drive the clean seed agenda in Uganda
- Action and follow up points:
 - Complete the inspection standards
 - Hold next meeting in September 2016
- **Contact made with National Seed Traders Association:**
y/n
 - Potential collaboration on SP seed production
 - Links with registered seed enterprises-Not done

Business plan: implementation June – November 2016



	Political	Technical	Administrative	Socio-cultural
Actions implemented	1. Discussed ATAAS funding for PBS and Basic Seed production with NaCRRI management	1. Established basic multiplication to increase sales 2. Improved quality assurance by monitoring of SH and basic	1. Sub-ledger for SH on NTR made	1. Training on seed production done through sweetpotato field day

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 – see table)-Being compiled as basic seed is sold by AbiZARDI on behalf of NaCRRRI
4. Status of budget for pre-basic seed production for 2016/2017: 32,000 cuttings
 - a. Give total budget for PBS production^a: US\$11,400 and then the amount to be requested from RF: US\$250
 - b. Submitted to RF or senior management: January 2017
 - c. Approved: give actual or projected date. 30th January, 2017
5. Percentage of total production cost which will be met by revolving fund: **=2.2%**

^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
17 th November 2016	Sweetpotato field day on production technologies and seed systems	Approximately 200	Brochures	A well attended field day by district and sub-county production coordinators, NGO staff and farmers

Jan – May 2017: key areas for strengthening



- Technical
 - Human capacity building for increased vine multiplication
- Institutional
 - Management of revolving fund needs to be decentralized to the Program
- Financial
 - NARO needs to start funding the pre-basic seed business through the ATAAS project

2 BEST PHOTOS



Activity: Sweetpotato Field day
Location: AbiZARDI, Uganda
Date: November 17, 2016
Photo Credit: Paul Musana



Activity: Inspection of grafted
PBS material
Location: NaCRRI, Uganda
Date: November 18, 2016
Photo Credit: Paul Musana