



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

SASHA

Sweetpotato Action for
Security and Health in Africa

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Sweetpotato Seed Systems Community of Practice: 7th
Consultation- Sustainable Pre-basic Seed Production – SGA
Progress Review. Mukono Uganda 12th June

Production: capacities?

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

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	180.3	Open		8802	10 (3 node cuttings)
Mobile net tunnels	16	N	57.6	Open		4800	10 (3 node cuttings)
Open field multiplication	1	N	2023.43	Open		15751	
Basic seed multipliers							

Production: targets vs actuals?



Names of varieties under pre-basic multiplication:

Period: **June 2016 – May 2017**

Activities	Unit (& size)	Planned No. (June 16 – May 17)	Achieved (June 16 – May 17)	% achievement
TC initiation	Plantlets			
TC micro-propagation	Plantlets	1000	2219	> 100%
Hardening	Plants	1000	2219	> 100%
Screen house multiplication	Cuttings	3 000	8802	> 100%
Mobile net tunnel multiplication	Cuttings	-	4800	> 100%
Open field multiplication	Cuttings	20000	15751	78.75

Comments on production targets



- Actions taken during year 3 to increase multiplication rates:
 - Planting distance of 15cm instead of 20 cm in screenhouse
 - Utilisation of Net tunnels
 - Establishment of demonstration plots
- Actions taken during year 3 to reduce costs of production:
 - Ensure efficient use of culture incubation space eg 3 shelves instead of 4
 - Switch off fluorescent bulbs in empty areas
 - Produce only on demand
- Key challenges for year 3:
 - Labour
 - Problems with screenhouse structure, labour cost for vine harvest
- Lessons to share for year 3:
 - Documentation of activities to facilitate costing

Quality management



- No. of varieties under multiplication: Ten
- No. of plants virus indexed (grafted on / *Setosa* and tested with NCM-ELISA) 21
 - No. found negative 9 (and 42.9%)

% tested within last 12 months and results		
	VARIETY	INDEXING RESULTS
1	Apomuden	CLEAN
2	442162	CLEAN
3	Namanga	CLEAN
4	BF 82 x Tainung	CLEAN
5	TU Orange	CLEAN
6	BF59 x TIB 4	CLEAN
7	AP3A	CLEAN
8	PG 12 010 - 15	CLEAN
9	BF 59 x TIB 4	CLEAN

% tested within last 12 months and results		
	VARIETY	INDEXING RESULTS
10	Ininda	NOT CLEAN
11	Delvia	NOT CLEAN
12	BF 82 x TIB 8	NOT CLEAN
13	Patron	NOT CLEAN
14	Hi Starch	NOT CLEAN
15	BF 82 x CIP 13	NOT CLEAN
16	BF 24 x TIB 3	NOT CLEAN
17	BF 82 x CIP 17	NOT CLEAN
18	GLORIA	NOT CLEAN
19	TU Purple	NOT CLEAN
20	Kuffour	NOT CLEAN
21	Lourdors	NOT CLEAN

Quality management: June 2016- May 2017



- Seed standards and inspection protocol
 - Current status:
- Printing of GA Guide (500cps) - \$ 200.00
- Laboratory and Field Inspection (VR, CR, AS & BA) – 1,200.00
- Training of Seed/Vine Multipliers/Seed Inspectors/AEAs on QA Guide - 2,000.00
- IT Mobile Platform (1 year) plus 2 Tablets - 2,000.00

Stakeholder meetings: June 2016 – May 2017, and planned



Date of meeting held	No. participants (M/F)	Types of participant	Main topics	Follow up actions
31 st January 2017	36/6	AEAs and Farmers	Net Tunnel training in Ashanti and Brong Ahafo Region	Communication on WhatsApp page
6 th February 2017	23/7	AEAs and Farmers	Net Tunnel training in Volta Region	Will be done in August, 2017
10 th February	20/7	AEAs and Farmers	Net Tunnel training in Central Region	Will be done in August, 2017
21 st – 22 nd February	21/11	AEAs and Farmers	Sweetpotato utilisation training	

Stakeholder meetings: June 2017– May 2018, Planned



Proposed Date	No. participants	Types of participants	Main topics	Proposed budget
July 2017	120 – 30 per region	Farmers and Extension workers All stakeholders	Field day & IP meeting in four Regions	4000
December 2017	40	All stakeholders	National IP	2000
March 2018	120 – 30 per region	Farmer and Extension officers	Field day	4000
August 2018	40	All stakeholders	National IP	2000

Planned Training – in-country (June 17 – May 2018)



Planned for June 2017 – May 2018				
Date	Topic	No. participants (M/F)	Training materials available	Proposed budget (\$)
July 2017	Training of Seed/Vine Multipliers/Seed Inspectors/AEAs on QA Guide	40	Seed Quality guide	2000
Aug 2017 -	Sweetpotato field management and Net tunnels management for DVMs in 4 regions	80/40	Net tunnel manual	6000
Sept 2017	Formation of IPs in remaining 3 regions	80/40		6000

Marketing strategy: June 2017 – May 2018



	Target group	Message & activity	Time period	Channel/s	Responsible	Proposed budget	Indicator of success
1.	DVMs and Farmers	Available planting material	on going	Tonaton.com	Michael Arthur	500	Income in revolving fund
2.	Nursing mothers and food processors	OFSP for different food forms	From Sept 2017	hospitals Anti natal visits	Boadi Ahenkora H. Bortey	2000	No of mothers buying
3	High School feeding program	High nutrition of SP root and leaves	From August 2017	One on one commu. Fliers	Patricia Acheampo ng	2000	Quantity of tubers sold
4	Farmers	Premium planting materials	July – Sept. 2017	Field day	E. Baafi Marian Quain	2000	No of DVMs buying seedlings

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



- Technical
 - Team is strong in all aspects of project and can train other researchers
- Institutional
 - Institutionalise revolving fund
- Financial
 - Budget preparation

PHOTO 1



No.	Description of Activity Shown in Photo	Where taken (village, province, country)	Name of key persons in photo	Photo Taken by:
P1	Project Team, farmers, and Agriculture officers celebrating first set of net tunnels in Volta Region	Akatsi Ghana	Ghana Project Team, farmers, and Agriculture officers	Michael Arthur

Photo 2



No.	Description of Activity Shown in Photo	Where taken (village, province, country)	Name of key persons in photo	Photo Taken by:
P2	OFSP used to prepare "Oto" a Ghanaian traditional dish for festive occasions	Fumesua, Kumasi, Ghana	Egg and avocado garnish	Michael Arthur