

**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: Ethiopia

Period: Current status

Facilities	No. units	Irrigation (Y/N)	Total m ²	Method (poly, pot, ...)	RMT/ Conventional	Total no. of plants	Multiplication Rate
Screen house	1					2620	5
Mobile tunnels							9
Open field multiplication	5					5,000	8
QDS seed multipliers	9	Y?	40			15,400,000	7

Five new screen houses constructed by the government for production of SP, Ginger, Enset and Pineapple plantlets

Production: targets vs actuals?



Country: Ethiopia

Total for all varieties:

Period: **June 2016 – November 2016**

TC activities	Unit (& size)	Planned No. (June 16 – May 17)	Achieved (June – Nov 16)	% achievement
TC initiation	Plantlets	100	67	67
TC micro-propagation	Plantlets	200	92	46
Hardening	Plants	1000	860	86
Screen house multiplication	Cuttings	3000	2620	87
Mobile net tunnel multiplication	Cuttings	175,000	160,000	91.4
Open field multiplication	Cuttings	1 million	1,350,000	135

Comments on production targets



- Actions taken to increase multiplication rates:
 - ✓ Using small inter and intra-row spacing (20cmx20cm) in net tunnels
 - ✓ Using small cuttings of 3 nodes for planting
 - ✓ Application of FYM in the net tunnels and urea in the open field
- Actions to reduce costs of production:
 - Use of irrigation system established for other crops
 - Using small cuttings of 3 nodes for planting
- Key challenges:
 - Shortage of human power in Areka TC lab
 - Shortage of land and irrigation water for open field multiplication
- Lessons to share:
 - Planting beans for rotation in net tunnels than moving the net tunnels

Quality management

- No. of varieties under multiplication: 2
- No. of plants virus indexed (grafted on / *Setosa* and tested with NCM-ELISA) = 180 samples
 - No. found negative (and %) = 17 (10%) from farmers field and 179 (99.4%) from laboratory
- % tested within last 6 months and results
 - Variety: Awassa-83 result: -ve
 - Variety: Kulfo result: -ve
 - Variety: Beletech result: -ve
- Seed standards and inspection protocol
 - Current status: QDS standards approved and being implemented



PBS production requirement



Estimated demand for pre-basic cuttings for next season (January-March, 2017):

No. of PBS cuttings required: 3,035,948

Proposed prices for each class or seed:

Price	Pre-basic	Basic	QDS	Other	Farmer-to-Farmer
Local currency	0.30 ETB	0.30 ETB	0.2 ETB	-	-
US\$	0.01364	0.01364	0.0091	-	-

For each class – give length of cutting

Pre-basic: 30 cm

Basic: 30 cm

QDS: 30 cm

Other: -

Stakeholder meetings



- Date of last stakeholder meeting:
- Number and type of stakeholders
 - Number:
- **Stakeholders meeting for 2016 not yet done. To be done on third week of December, 2016**
- **Contact made with National Seed Traders Association:**
 - v/n
 - links with registered seed enterprises
- Action and follow up points:
 -
 -

Business plan: implementation June – November 2016



	Political	Technical	Administrative	Socio-cultural
Actions implemented NB Review guidance note for matrix on institutionalisation	1. QDS guidelines institutionalized	1. Cost structure being updated 2. QDS guidelines being implemented 3. Assistant researcher recruited 4. Net tunnels constructed 5. Expansion of growth room	1. BP recognized by SARI 2. Revenue from sales of crops (SP, maize, beans, forage...) being used for the production of the seeds of crops 3. Gos/NGOs continue to deliver PM to farmers on free basis	1. Addressing cross cutting issues such as food security and nutrition security for pregnant and lactating women

Revolving fund: status



1. Composition and operation of revolving fund agreed and documented? **N**
2. How often has RF management committee met over reporting period? **N**
3. Revenue received from sale of cuttings for period June to November 2016 (or by month – see table): **ETB178,970 = \$8,135**
4. Status of budget for pre-basic seed production for 2016/2017:
 - a. Give total budget for PBS and **BS** production^a: and then the amount to be requested from RF = **\$11,800 and \$7,080 USD to be requested from RF**
 - b. Submitted to RF or senior management: **not yet**
 - c. Approved: give actual or projected date: **not yet**
5. Percentage of total production cost which will be met by revolving fund: = **60%**

^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
July	Sweetpotato agronomy and QDS guidelines	12 F and 30 M	Soft copy	Provided in collaboration with BPBL project
August	Root crops production and field management (SP, Cassava, Yam & Taro)	> 300	Soft copy	Provided in collaboration with MoA

Jan – May 2017: key areas for strengthening



- Technical
 - Training of newly recruited TC staff
- Institutional
 - CIP to discuss with SARI management on how to make Areka TC lab more functional, especially with regard to human power, and
 - On establishment the RF committee
- Financial
 - Use of revolving fund for strengthening sweetpotato PBS and BS production

2 BEST PHOTOS

- Select 2 photos which really show something new or different about your pre-basic seed activities. Provide the following information:
 - Activity
 - Location and date
 - Name of person in photo
 - Photo credit

PHOTOS...

Sweetpotato BS production at Hawassa, taken by Fekadu G. on 3 Dec, 2016 showing creativity of a guard to protect entrance of porcupines



PHOTOS...

Beans planted in mobile net tunnels for rotation to replace rotation of the net tunnels. Photo taken by Fekadu G. at Hawassa on 3 Dec, 2016

