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: Burkina Faso

Period: June November 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	75	Pot		4536	8
Mobile net tunnels							
Open field multiplication							
Basic seed multipliers							

Production: targets vs actuals?

Country:

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			
TC micro-propagation	Plantlets			
Hardening	Plants			
Screen house multiplication	Cuttings	35000	72576	207%
Mobile net tunnel multiplication	Cuttings			
Open field multiplication	Cuttings			

Comments on production targets

- Actions taken to increase multiplication rates:
  - E.g.: use of fertilizer (urea mixed with NPK). Optimal control of irrigation period in avoiding water stress (hygro-thermometer used)
- Actions to reduce costs of production:
  - E.g:
- Key challenges:
  - E.g.: whiteflies difficult to control inside the screenhouse. What pesticide to use and at what concentration, interval of spray?
  - Competition for water during the dry season (borehole?)
- Lessons to share:
  - E.g.: too higher of varieties. Keep only the most demanded

Quality management

- No. of varieties under multiplication: 3 mostly used and 12 others
- No. of plants virus indexed (grafted on *I Setosa* and tested with NCM-ELISA): 15
  - No. found negative (and %): 8 (53%)
- % tested within last 6 months and results
  - Variety:BF59xCIP-4…result: clean
  - Variety:BF92xTIB-2…result: 6 minor virus types identified
  - Variety:Tiebele-2…result: clean
- Seed standards and inspection protocol
  - Current status: ongoing development for adoption

PBS production requirement

Estimated demand for pre-basic cuttings for next season : 153,733 (June – July 2017)

No. of PBS cuttings required: 3137

Proposed prices for each class or seed:

Price	Pre-basic	Basic	QDS	Other	Farmer-to-Farmer
Local currency	**25**	**15**	**10**		
US$	**0.05**	**0.03**	**0.02**		

For each class – give length of cutting

Pre-basic: 20 cm

Basic: 25 – 30 cm

QDS: 25 – 30 cm

Other:

Stakeholder meetings

- Date of last stakeholder meeting:

Not yet; just informal contact

- Number and type of stakeholders
  - Number:
  - Type:
- Main agenda items

- Action and follow up points:

- **Contact made with National Seed Traders Association: yes**
  - Potential collaboration on SP seed production
  - Links with registered seed enterprises

Business plan: implementation June – November 2016

	Political	Technical	Administrative	Socio-cultural
Actions implemented	1. Seed quality policy 2. Distribution of free PM 3. Nutritional policy in place	1. Quality vine of preferred varieties availability 2. Inspection 3. Good production condition	1. Revolving fund in place 2. Enabling environment 3. …	1. Variety yield benefit 2. Price of PM 3. Willingness to pay

NB Review guidance note for matrix on institutionalisation

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?
3. Revenue received from sale of cuttings for period June to November 2016 (or by month – see table)
4. Status of budget for pre-basic seed production for 2016/2017: 28935
   a. Give total budget for PBS production[a]: and then the amount to be requested from RF
   b. Submitted to RF or senior management: give date
   c. Approved: give actual or projected date.
5. Percentage of total production cost which will be met by revolving fund: =%

[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

No training within this period

Date	Topic	No. participants (M/F)	Training materials available	Comments

Jan – May 2017: key areas for strengthening

- Technical
  - More capacity (One tunnel) for PBS production
  - Good control of temperature inside the screenhouse

- Institutional
  - Revolving fund committee to be established (we are still behind)
- Financial
  - Additional for a borehole????

2 BEST PHOTOS

Mixed fertilizer (NPK/Urea: 2/1 improve PBS production in screenhouse at INERA station of Kamboinse.
25/11/2016

Hygro-thermometer to monitor temperature, relative humidity and irrigation in screenhouse.
INERA station Kamboinse
Photo: 25:11/2016