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

Sweetpotato Action for Security and Health in Africa

Njoku Jude, NRCRI, Umudike, Nigeria Sweetpotato Seed Systems Community of Practice: Sixth Consultation- Sustainable Pre-basic Seed Production – Progress Review. Nairobi 6-7th December 2016

Production: capacities?



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Country: Nigeria 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	2	Yes/rain fed	1000	Pot		2000	5
Mobile net tunnels	18	Yes/rain fed	97.2	Open		4860	9
Open field multiplication	1	Ν	560	open		4667	15
Basic seed multipliers	-	-	-	-		-	-

Production: targets vs actuals?



Country: Nigeria Total for all varieties: 2 but 1 is promoted Period: **June 2016 – November 2016**

TC activities	Unit (& size)	Planned No. (June 16 – May 17)	Achieved (June – Nov 16)	% achievement
TC initiation	Plantlets	1000	200	
TC micro-propagation	Plantlets	5000	0	
Hardening	Plants	5000	0	
Screen house multiplication	Cuttings	100000	10000	10
Mobile net tunnel multiplication	Cuttings	108000	97200	90
Open field multiplication	Cuttings	750000	70000	9.3



Comments on production targets



- Actions taken to increase multiplication rates:
 - E.g. Training of vines to accelerate growth increases ratio to 12-15 Application of agrolizer to boost growth of vines
- Actions to reduce costs of production:
 - E.g. Replacement of vermiculite with sterilized saw dust and sea sand (2:1) as medium for hardening plantlets
- Key challenges:
 - E.g. Lack of functional screen house screen house
 - Poor power source to support micro-propagation at TC
 - Limited released varieties to meet farmers preferences
- Lessons to share:
 - E.g. Demonstrations on yield advantage of quality vine cuttings will enhance willingness to buy planting material
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Quality management



- No. of varieties under multiplication: 1
- No. of plants virus indexed (grafted on *I Setosa* and tested with NCM-ELISA): 10 leaf samples were tested with NCM-Elisa
 - No. found negative (10 and 100 %) to 10 virus strains
- % tested within last 6 months and results
 - Variety:UMUSPO3...result: -ve to MMV,SPCSV, SPFMV, SPLV etc....
 - Variety:.....result:....
 - Variety:.....result:....
- Seed standards and inspection protocol
 - Current status: Protocol for QDPM developed and pre-tested



PBS production requirement



Estimated demand for pre-basic cuttings for next season: 75000 (t dates of season):February, 2016

No. of PBS cuttings required: 15000......

Proposed prices for each class or seed:

	•				
Price	Pre-basic	Basic	QDS	Other	Farmer-to- Farmer
Local (NGN) currency	N4.78/vine	N3.8/vine	N2.4/vine		N2.0/vine
US\$ (\$1:N314)	\$0.016	\$0.012	\$0.008		\$0.006

For each class – give length of cutting

Pre-basic:15-20cm

Basic:21-30cm

QDS:21-30cm

Other



Stakeholder meetings

- Date of last stakeholder meeting:16th Nov 2016
- Number and type of stakeholders
 - Number:14 participants
 - Type: NGO (3), farmers Society(8), University (1), ADP(1) NASC(1)
- Main agenda items
 - Review of workshop objectives..
 - Overview of SASHA project...
 - OFSP seed certification
 - Participants remarks/buy-in...
- Action and follow up points:
 - Kolpin to mobilize their farmers to procure to work out modalities to basic seeds.
 - Farmer association selected DVMs for QDPM and root producers....



- Contact made with
 National Seed Traders
 Association: No
 - Potential collaboration on SP seed production
 - Links with registered seed enterprises



Business plan: implementation June –



	Political		Technical		Administrative		Socio-cultural	
Actions	1.	Held meeting	1.Cost structure &	1.	Established a	1.		
implemen		with senior	data		management	2.		
ted		management on	Finalized cost		committee and	3.		
		viability of	structure for TC		work out			
		business plan to	plantlets and pre-		operational			
		sustain	basic seeds		procedures of			
		production of	2. Monitoring		revolving fund			
		pre-basic seed	production:	2.	Initiated opening			
	2.		Monitored 2000		of sub-account on			
	3.		pre-basic seed		the existing			
			production in two		Institute consult			
			Locations		account			
			3. Improve	3.	Quarterly meeting			
			multiplication:		initiated			
			Training of vines in					
			scree house	9	A UAA UA	λ.	Slide No. 8	

Revolving fund: status



- 1. Composition and operation of revolving fund agreed and documented? Yes
- 2. How often has RF management committee met over reporting period? 2 times
- 3. Revenue received from sale of cuttings for period June to November 2016 (or by month see table) No sales
- 4. Status of budget for pre-basic seed production for 2016/2017: Budget has not been drawn
 - 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



Date	Торіс	No. participants	Training materials	Comments	
		(M/F)	available		
24/11/	Triple 's'	62 participant (12	1. Medium sized	The farmers were	
2016	technology for	females and 50	roots	advised to set up the	
	quality vine	males)	2. Three containers	triple's' following the	
	conservation and		(Paper box, plastic	procedures in their	
	production		bowl and sack (30kg)	respective homes	
			3. Dry sand	The training took	
			4. Used newspaper	place in Osun state	
21 st	Everything you	2 participants	Training manuals	The two participants	
Novem	ever wanted to	(Only males	and demonstration	are presently	
ber –	know about		materials	supervisin <mark>g</mark> SASHA	
2 nd	sweetpotato			project activities in	
Secem				Kano and OSUN state	
ber			O'AUA P	Slide No. 10	

Jan – May 2017: key areas for strengthening



• Technical:

Training of technical staff on management of pre-basic and basic seed production

• Institutional:

Strengthen the breeding program of the institute for release of OFSP varieties of farmer preference

Infrastructure development such as construction og more screen house march with target....

• Financial:

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2 BEST PHOTOS



- Select 2 photos which really show something new or different about your pre-basic seed activities. Provide the following information:
 - Activity: Visit to screen house by stakeholders
 - Location and date: NRCRI, 16th November, 2016



- Name of person in photo: Dr Njoku showing advantage or training vine cuttings to enhance pre-basic multiplication ratio
- Photo credit: Dr. Marcel Ogbonna

