



Our concept: a partnership of farmers, scientists and other stakeholders

- To build on indigenous farmer breeding.
- To use plant breeders' capacity to access diversity, generate large numbers of seedlings of good families and select promising genotypes.
- To involve other disciplines and other stakeholders [e.g., processors].

Key aspects of the process:

- Scientists provide farmers with knowledge of value of seedlings, large numbers of seedlings & diverse seedlings with resistance to cassava mosaic etc.
- Selection of superior seedlings done in farmers' fields, and farmers and scientists have equal rights in this.
- Farmers identified a need for new markets.

	Nkaakom: Forest Zone	The Process	Aworowa: Forest- savannah transition			
16 half-sib families from IITA						
Time						
2000	650 seedlings		700 seedlings			
2001	160 clones		139 clones			
2002	62 clones		65 clones			
2003	13 clones		16 clones			
2004 2	9 clones combined and tested	d in multilocational trials in Forest a	and Forest savannah transition zones			
2005			Trials with processors in			
			Coastal savannah zone			
2006	Top 4 selected for inspection trials for					
2000	release document		Clones with			
			content			
A			identified			





Some common selection criteria mentioned by farmers during evaluations at different harvests		
	High storage root yield	
	Poundability into fufu	
	Large [marketable] roots	
	Many branches	
	Thick stem	
	Suitable for intercropping	
	Ability to suppress weeds	
	Early maturity	
	Non-rotten storage roots	
	Healthy leaves	
	Disease free plants	
	A particular storage root skin colour	
	Average neck length of storage roots	
	Resistance to lodging	





No 24: the one the farmers really like:

Good for fufu;

Pound all-year round;

Pinkish skin like popular local;

Tall, highbranching like their landraces











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	Date:	Mon, 16 Oct 2006 19:41:23 +0100 (BST)	
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[having] the highest starch material (34% starch) amongst the materials tested throughout the country. This material plus the 3 accessions planted for inspection last year have been replanted and we hope to get them ready for release next year. It is also worth noting that 6 of our materials (all having starch contents >26%) have been selected amongst top 26 materials being evaluated for PSI* on starch and alcohol production.			
Tr sta foi 35 Th	Frials with processors have been harvested and their selections as far as the starch contents are concerned seemed to agree with what have been selected or wider testing for use by PSI. Eight of the accessions had yields ranging fron 35-50 T/ha however, 4 had starch contents ranging between 26 and 34%. These are greater than Afisiafi (23% starch)."		ie ted from

PSI = President's Special Initiative for development of starch factories in Ghana _____

Some lessons learnt from participatory breeding activities as perceived by scientists

- Fast: simultaneous selection by farmers and scientists enabled the process to be rapid; just 6 yrs and superior, CMD-resistant clones were identified for farmers and processors
- Adoption: can be expected as farmers are already beginning to adopt them informally
- Scientists gained valuable insights into farmers' selection procedure and attributes selected for
- Processors and post-harvest scientists able to identify superior clones amongst those which farmers were already happy with
- It was confirmed that farmers are effective selectors for their needs and conditions
 Careful selection of crosses is a key role for the plant breader
 - Careful selection of crosses is a key role for the plant breeder

OVERALL, IT WAS A VERY POSITIVE EXPERIENCE

Some lessons learnt from participatory breeding activities as perceived by farmers

[Activity	What farmers learnt (benefits)	% of farmers responding
	Planting	Awareness that cassava seeds can be planted	77
		Spacing of cassava	23
	Weeding	Timely weeding	86
		Line weeding	14
	Assessment	Disease identification	82
		Identification of high yielding varieties	18
Harvesti	Harvesting	Different types selected for different purposes	48
	and selection	High yielding cassava material	26
		Good tubers obtained from cassava seeds	16
		Selection of good planting materials	10
ĺ	Overall	Benefits of interacting with scientists	61
		Scientific method of producing cassava	28
		Means of eradicating cassava diseases	11
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