



SEED YAM PRODUCTION *at GoSeed*

by
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YIIFSWA Annual meeting
18th – 21st February 2020 Bolton White Hotels Abuja

IITA GoSeed is a unit of the IITA Business Incubation Platform (BIP) and registered as a Limited Liability Company. The company saddled with the responsibility for the commercial promotion of the early generation seeds of the improved crop varieties generated by IITA and other CGIAR Centers across the globe

Its focus crops include banana, cassava, cowpea, maize, plantain, rice, soybean and yam

Access to clean, improved varieties of seeds remain a major challenge to achieving high productivity and profitability in agricultural production in Africa.

Method of production	Starting material	Rate of multiplication	Product
Minisett Technique	15-25 g tuber/ piece	1: 30	Seed tubers
Vine cuttings	Single node vine cuttings	1: 300	Micro and minitubers
SAH plantlets	1-4 nodes plantlets	1: 500	Minitubers

Batch no	Variety	Seed type	Source prog	No recieved	No of propagules planted	Planting location
1	Asiedu	Vine seedling	YIIFSWA	410	410	Field (CS7)
		Seed yams	YIIFSWA	533	920	Field (CS7)
	Kpamyo	Vine seedling	YIIFSWA	446	432	Field (CS7)
Seed yams		YIIFSWA	970	2,155	Field (CS7)	
SAH plantlets		GoSeed	4,559	4,559	Field (CS7)	
2	Kpamyo	Seed yams	YIIFSWA	1,163	3,924	Field CS7
		SAH plantlets	GoSeed	3,885	938	ScreenHouse
3	Asiedu	Seed yams	YIIFSWA	204		
	Kpamyo	Seed yam	YIIFSWA	2,920	15,375	Field
		SAH plantlets	GoSeed	3,538	3530	ScreenHouse
Total				18,628	32,243	



- **Field Location:** Located at the International Institute of Tropical Agriculture, 0.9ha (36,000 seed yams)
- **Pre-planting Activities:** mowed, ploughed, ridged and mapped at a spacing of 25x 100cm.
- Planting activities started on 13/09/2019

IITA GoSeed is employing all available technologies for the seed yam production

836 vine seedlings and 3,075 minisetts making a total of 3,911 propagules were first planted in the field

7,030 SAH yam seedlings were collected from GoSeed yam SAH laboratory and transplanted in the field

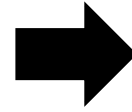
However, most of the SAH plantlets died off. This might be due to poor soil and environmental conditions.



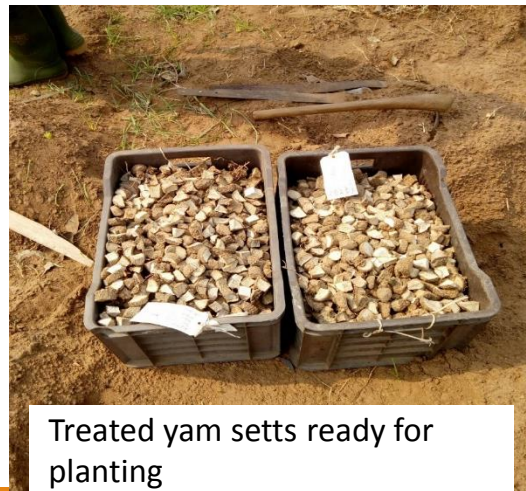
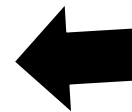
Seed tubers that have broken dormancy



15g minisetts from seed tubers



Yam setts dipped in suspensions of Mancozeb and Cypermethrin and removed after 10 mins



Treated yam setts ready for planting



Treated yam setts dried out 3 days before planting



YIIFSWA and NASC visit to GoSeed Yam seed field



Seed Tracker™
www.seedtracker.org



SAH plantlets are transplanted in trays, nursery bags and some left in SAH boxes for minituber production in the Screen house.

- 938 plantlets are transplanted in trays
- 3,410 plants are transplanted in nursery bags
- 16,425 plantlets in SAH boxes
- 900 plantlets transplanted in 6 Plastic crates

Variety	Propagule	No planted	Date of planting	Estimated no of minisetts to be produced	Harvest timeline	Seed class
Kpamyo	Minisetts	2,155	Sep 2019	32,325	Mar 2020	FS
		3,926	Nov 2019	58,890	May 2020	FS
		4,221	Jan 2020	63,315	Jul 2020	FS
		4,491	Feb 2020	67,365	Aug 2020	FS
	SAH(bags)	3,410	Dec 2019	6,820	Jun 2020	BS
	SAH(Crates)	900	Dec 2019	900	Jun 2020	BS
	SAH(trays)	938	Nov 19	938	May 2020	BS
Asiedu	Minisetts	920	Sept 19	13,800	Mar 2020	FS

500 minitubers from SAH and 41 minitubers from vine seedlings were harvested from the field.
900 minitubers harvested from SAH boxes in the screen house



Minitubers harvested from the field



Minitubers in SAH box ready to be harvested

Planting materials



Technical support



Financial support



Backstopping support





BILL &
MELINDA
GATES
foundation



IITA Yam
Breeding
Unit

Thank you for your attention