

Leaf-bud Cuttings: Rapid Yam Multiplication Method

Yam leaf-bud cuttings, rapid quality seed production!

Leaf-bud Cuttings enable rapid yam seed multiplication by using vine segments instead of bulky tubers. One vine produces 100–300 new plants, reducing seed shortages and costs. It's a scalable, clean, and efficient method to strengthen national food security and seed systems.



IITA
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Commodities

Yam

Sustainable Development Goals



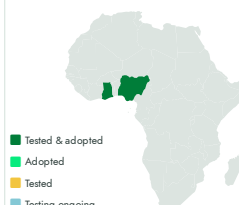
Categories

Pre-production, Practices, Seed system

Best used with

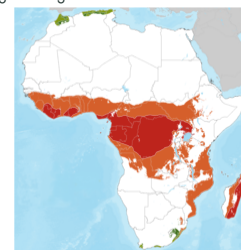
Semi-Autotrophic Hydroponics for yam multiplication
See all 1 technologies online

Tested/adopted in



Where it can be used

This technology can be used in the colored agro-ecological zones.



Target groups

Farmers, Seed companies,

This technology is **pre-validated**.

9.7



Scaling readiness: idea maturity 9/9; level of use 7/9

Inclusion assessment

4

Climate impact

4

1

Problem

- Up to 30% of food harvest is used for seed, reducing food availability for the population.
- Poor seed quality contributes to crop loss and food insecurity—up to 40% of seeds may rot after planting.
- High cost of seed yam (up to 60% of production cost) and lack of quality standards hinder national productivity targets.
- Traditional methods have a very low seed multiplication rate (only 1:3), slowing the adoption of improved varieties.

Solution

- Vine cuttings multiply seed 100 times faster than traditional tubers, boosting food security and reducing seed costs.
- Healthier seeds mean less crop loss and better yields, supporting national agricultural goals.
- More affordable, quality seed strengthens rural livelihoods and helps farmers adapt to climate change.

Key points to design your project

LBC technology boosts yam production by enabling farmers to multiply seed using vine cuttings instead of bulky tubers. This is a smart solution to improve food security, farmer income, and seed system resilience nationwide. to integrate in your project,

- Support national agricultural programs to train extension agents and seed producers on vine cutting protocols.
- Allocate public funding or incentives to help scale local nurseries for rapid multiplication of certified yam seeds.



Open source / open access



Leaf-bud Cuttings

<https://taat.africa/xpi>

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