

Propagation of Banana and Plantain Disease-Cleaned Suckers

Propagate Success with Clean Suckers

Macro-propagation involves two techniques: field-based (decapitation) and detached corm (beds). It ensures disease-free seedlings, promoting uniform growth and stress resistance. Clean knives and hardened sprouts are vital for success.





Complete decapitation with excised meristem (top) and sprouting suckers (bottom)



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Technology from

ProPAS

Commodities

Banana/Plantain

Sustainable Development Goals







This technology is <u>TAAT1 validated</u>.





Gender assessment 84

Climate impact

87

Problem

- Natural regeneration often results in contaminated banana and plantain planting materials, harming productivity and lifespan.
- Traditional methods result in non-uniform growth, affecting the overall efficiency of banana and plantain cultivation.
- Conventional methods may lead to stressprone plantlets, negatively impacting their adaptation and performance in the field.

Solution

- Macro-propagation ensures the production of banana and plantain seedlings free from pests and diseases, promoting healthier and more resilient crops.
- Macro-propagation contributes to increased productivity and prolonged lifespan of banana and plantain plants.
- This technique reduces financial barriers by offering a low-cost method of obtaining disease-free seedlings
- Macro-propagation ensures more uniform growth of banana and plantain seedlings.

Categories

Production, Practices, Seed system

Best used with

- Improved Varieties of Plantain for Tropical Lowlands >
- Improved Varieties of Banana for the African Highlands >



1500 USD per 8000

ROI: \$\$\$

725—1050 USD

Net profit per cycle

plantlets

Nusery four months maintenance

340 USD

2,300 USD

[]IP

2,500 plantlets shade house

Cost of chamber of 8,000 plantlets

Open source / open access



Where it can be used

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



