

# Raised beds for sweet potato production and weed management

Raise tuber yields with raised beds

The raised bed technology elevates sweet potatoes for better growth. By creating designated areas with loose soil, it prevents soil compaction and weed growth, ensuring optimal nutrient absorption. This method is beneficial in areas with poor soil quality, promoting healthier crops and easier maintenance for farmers.



**International Potato Center (CIP)**

Kwikiriza Norman

Technology from

[ProPAS](#)

Commodities

Sweet Potato

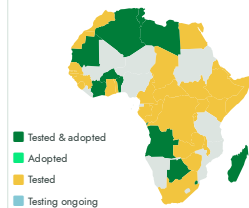
Sustainable Development Goals



Categories

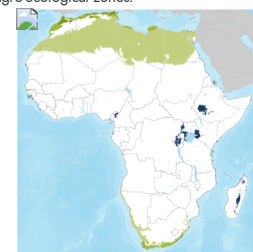
Production, Practices, Weed management

Tested/adopted in



Where it can be used

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



Target groups

Farmers

✓ This technology is **TAAT1 validated**.

7/7



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

Gender assessment

4

Climate impact

7

## Problem

- Uncontrolled weeds compete with sweet potatoes, reducing yields and stunting growth.
- Traditional methods can lead to poor root development and tuber growth.
- These diseases can devastate sweet potato crops, leading to lower yields and economic losses.
- Manual weeding diverts resources from other crucial activities.

## Solution

- Elevates sweet potato plants, creating ideal conditions for tuber development. Prevents soil compaction and waterlogging, ensuring healthy growth.
- It provides an environment hostile to soil-borne diseases, fostering healthier crops and minimizing disease-related losses.
- It maximizes tuber yields by maintaining optimal soil conditions, reducing dependency on external inputs and manual labour.

## Key points to design your project

The technology of raised beds for sweet potato production and weed management promotes healthier plant growth and ecosystem preservation. Key steps for integration include

- Educating farmers about the benefits, selecting suitable sweet potato varieties,
- Ensuring access to quality planting materials,
- Providing support for raised bed construction, and associating with complementary technologies.

Cost: \$\$ **584 USD**

Installation of raised beds per acre

**7 %**

Fresh tuber weight increased



Open source / open access



Raised beds for sweet potato production and weed management

<https://taat.africa/hfh>

Last updated on 22 May 2024, printed on 15 May 2025

Enquiries [e-catalogs@taat.africa](mailto:e-catalogs@taat.africa)