

Raised beds for sweet potato production and weed management

Raise tuber yields with raised beds



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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.

Technology from

ProPAS

Commodities

Sweet Potato

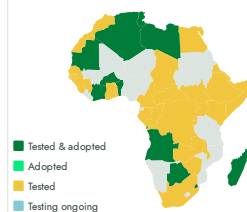
Sustainable Development Goals



Categories

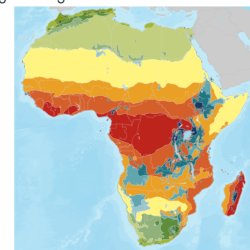
Production, Pre-production, Practices, Weed management

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

Inclusion 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 program

Raised Beds for Sweet Potato Production and Weed Management can be integrated into sweet potato value chain development, food security, climate-smart agriculture, and sustainable crop production programs to increase tuber yields, improve weed management, and strengthen crop resilience. Its adoption contributes to **SDGs 2 and 13**. To integrate this technology into your project, plan and budget for the following activities and prerequisites:

- **Facilitate access** to quality planting materials, raised-bed preparation tools, fertilizers or compost, and mulching materials.
- **Establish partnerships** with CIP, national agricultural research and extension services, producer organizations, and input suppliers.
- **Conduct** demonstration plots and training on raised-bed construction, weed management, and sweet potato production practices.



Open source / open access



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