

Six Steps to Cassava Weed Management

Weed-free Fields, Bountiful Yields!

The “Six Steps Cassava Weed Management” technology is a holistic solution to weed problems in Sub-Saharan Africa’s cassava fields. It provides a decision-making framework for farmers to effectively control weeds, leading to higher cassava yields. This adaptable method caters to diverse farming conditions, enhancing cassava productivity and regional food security.



International Institute of Tropical Agriculture (IITA)
Friday Ekeleme

Technology from

ProPAS

Commodities

Cassava

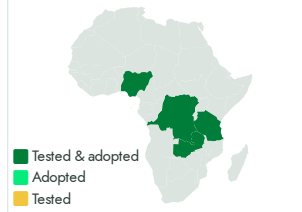
Sustainable Development Goals



Categories

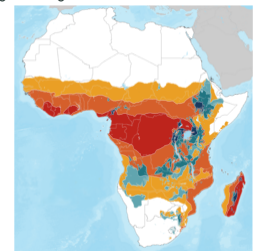
Production, Practices, Weed management

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**.

9·7



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

Gender assessment 4

Climate impact 7

Problem

- **Weed Encroachment:** Cassava fields in Sub-Saharan Africa are frequently overrun by weeds due to inadequate and untimely control measures.
- **Slow Canopy Development:** The growth pattern of cassava makes it vulnerable to weed encroachment in the early weeks of cultivation.
- **Nutrient and Water Competition:** Abundant weeds consume significant nutrients and water, drastically reducing cassava yield.

Solution

- **Improved Yield:** It enables farmers to significantly increase cassava yields by managing weeds effectively.
- **Comprehensive Approach:** It provides a holistic strategy for weed control, including site selection, weed identification, and herbicide application.
- **Resource-Friendly:** The technology is accessible to small-scale farmers, requiring only simple and cost-effective equipment and herbicides.

Key points to design your project

The “Six Steps Cassava Weed Management” technology boosts cassava yields, eases women’s workload, and aligns with SDGs 2, 5, and 13.

To integrate it into your project:

- Educate farmers about its benefits.
- Distribute the decision support tool and recommendations.
- Ensure access to small loans.
- Plan for various farming activities.
- Use simple, cost-effective equipment.

It works well with other cassava cultivation practices and digital tools like Akilimo and the IITA Herbicide calculator.

Key partners include the International Institute of Tropical Agriculture (IITA).

30–50 %

Root yield increased

20-30 USD/ha

Cost for herbicide application

28-46 USD/ha

Cost for weed removal labor



Open source / open access



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<https://e-catalogs.taatafrica.org/gov/technologies/six-steps-to-cassava-weed-management>

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