

# Disease resistant cassava varieties

## Disease-Resistant Cassava Cuttings for Higher Yields

"Disease Resistant Cassava Varieties" are specially bred to withstand common viral diseases like cassava mosaic and cassava brown streak in sub-Saharan Africa. Those varieties help farmers protect their crops, increase yields, and improve food security. Ongoing breeding programs aim to find more varieties for sustainable cassava production.



**International Institute of Tropical Agriculture (IITA)**  
Edward Kanju

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

- Viral diseases damage cassava leaves, reducing photosynthesis and causing significant yield losses.
- Current disease control methods for cassava are ineffective against viral pathogens.
- Farmers in African countries experience yield losses ranging from 20% to 95%, valued at approximately US\$1,200 – 2,300 million.

### Solution

- Disease-resistant cassava varieties significantly reduce infection rates and yield losses.
- Genes from wild types are transferred into improved cassava varieties through conventional crossing techniques, offering a cost-effective approach.
- Many resistant cassava varieties also exhibit comprehensive resistance to other major cassava pathogens, benefiting integrated crop health management by farmers.

### Key points to design your project

- Disease-resistant cassava varieties technology empowers women, enhances food security, and mitigates climate change impacts.
- Integration involves raising awareness, acquiring adapted cassava lines, and building stakeholder capacity.
- Costs include delivery, training, and planting materials, estimated at USD 30 to 35 per hectare.
- Collaboration with agricultural institutes and seed companies is key for effective implementation.
- Availability spans various countries, requiring consideration of import clearance and duties.

Cost: **30—35 USD**

1 ha of planting materials of elite cassava varieties

**15—20 %**

Incidences of cassava mosaic disease with resistant varieties

Technology from

ProPAS

Commodities

Cassava

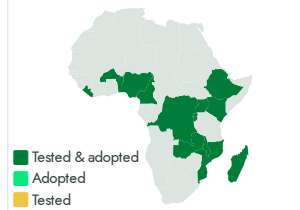
Sustainable Development Goals



Categories

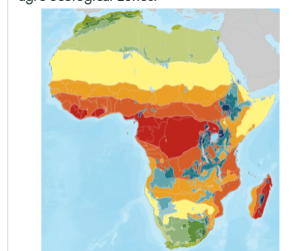
Production, Improved varieties, Disease resistance

Tested/adopted in



Where it can be used

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



Target groups

Farmers, Seed companies



Disease resistant cassava varieties

<https://e-catalogs.taatafrica.org/gov/technologies/disease-resistant-cassava-varieties>

Last updated on 28 August 2024, printed on 2 October 2024

Enquiries [e-catalogs@taatafrica](mailto:e-catalogs@taatafrica)