

CRAM varieties: High Yielding Climate Resilient Upland Rice Varieties for Africa

Climate resilient CRAM varieties for enhanced rice productivity for African farmers

CRAM (Climate Resilient Upland Rice Varieties for Africa) are high-yielding, early-maturing rice varieties developed by AfricaRice and CNRA for rainfed upland and sloping fields. Maturing in just 101–104 days, they combine yield potential of up to 5.0 t/ha with resistance to major diseases, lodging, and shattering.



AfricaRice

Africa Rice Center
Negussie Zenna

Commodities

Rice

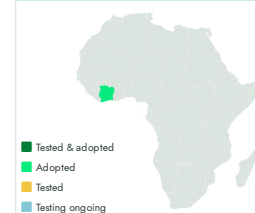
Sustainable Development Goals



Categories

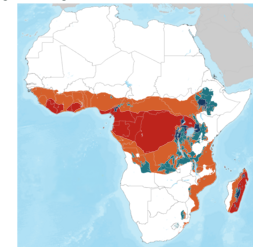
Production, Improved varieties,
Disease resistance, Insect resistance

Tested/adopted in



Where it can be used

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



Target groups

Breeders, Farmers, Seed companies,
Researcher center,
Cooperatives and Agribusinesses



This technology is **pre-validated**.

9-8



Scaling readiness: idea maturity
9/9; level of use 8/9

1012 USD

Cost USD per hectare

1320 USD

Revenue USD per
hectare

308 USD

Net income USD per
hectare

30 %

ROI per hectare

**1.78 USD per
kg**

Certified Seed
Purchase

**3,220.00
USD per ha**

Official Variety
Certification &
Inspection

**3.57 USD per
kg**

Foundation Seed
Procurement

**4,000 kg per
ha**

Expected Seed Yield



Open source / open
access

Problem

- **Unstable production:** Drought, rainfall variability, and diseases reduce yields and profitability.
- **Short growing windows:** Farmers need early-maturing varieties that perform reliably under rainfed conditions.
- **Harvest losses:** Lodging and grain shattering reduce marketable yields and increase harvesting costs.

Solution

- **High productivity:** Up to **5.0 t/ha**, with drought and disease resistance reducing production risks.
- **Fast turnover:** **101–104-day maturity** enables earlier harvests and better production planning.
- **Lower losses and costs:** Lodging, shattering, blast and brown spot resistance help protect yields and reduce crop protection costs.

Key points to design your business plan

CRAM offers **seed multipliers and sellers** a ready-to-scale commercial opportunity:

- **11.5 tonnes of G4 foundation seed** available for multiplication.
- **~50% ROI** from seed production, with yields up to **4 t/ha**.
- **Strong farmer demand** for early-maturing, drought-tolerant varieties.
- **Good market value** from quality and aromatic grain options.
- **Scale through** certification, agro-dealer and farmer networks.

Inclusion assessment



Climate impact



CRAM varieties

<https://taat.africa/tsg>

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