

NERICA: High yield rice varieties for Africa

NERICA: Higher Yields, Resilience, and Profitability for African Farmers.

NERICA varieties are tailored for African conditions, offering high yields (2 to 6 tons per hectare), resistance to weeds and drought, and adaptability to poor soils. They show moderate resistance to diseases and pests, reducing the need for chemical interventions and promoting sustainable agriculture in Africa.



AfricaRice

Africa Rice Center
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Technology from

ProPAS

Commodities

Rice

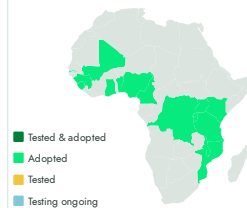
Sustainable Development Goals



Categories

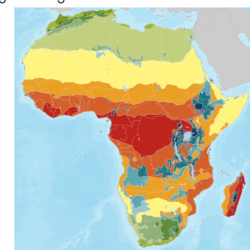
Production, Improved varieties,
Yield improvement, Drought tolerance

Tested/adopted in



Where it can be used

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



Target groups

Farmers, Seed companies

✓ This technology is **TAAT1 validated**.

8•8



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

Gender assessment

4

Climate impact

4

Problem

- Traditional rice varieties often yield less, impacting food security and farmers' income.
- Conventional varieties are more susceptible to pests and diseases, leading to yield losses.
- Many varieties struggle in nutrient-poor soils and under erratic rainfall.
- Insufficient local production leads to heavy reliance on imported rice, affecting economic stability.

Solution

- NERICA varieties yield more, ensuring food security and higher income.
- They resist pests and diseases, reducing chemical use.
- Thrives in poor soils and limited water, suitable for diverse environments.
- Boosts local production, enhancing economic stability.
- Accessible to small-scale growers, improving practices and income.

Key points to design your program

NERICA improved rice varieties tackle key challenges in rice farming, including low yields, drought resistance, and adaptability to upland conditions.

- Yielding up to seven tonnes per hectare,
- It supports SDG 2 by enhancing food security, SDG 5 by empowering women farmers, and SDG 13 by reducing water needs for irrigation.
- It is ideal for development programs aimed at food security, farmer income growth, and sustainable agriculture.

Cost: \$\$\$ **0.8—1.2 USD**

Per kg of seeds

ROI: \$\$\$ **25—39 %**

1.7—0.7 ton per ha

with and without fertilizer



Open source / open access



NERICA

<https://e-catalogs.taatafrica.org/org/technologies/nerica-high-yield-rice-varieties-for-africa>

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