ARICA: Advanced rice varieties for Africa

Arica rice, the high yield, disease and stress tolerant rice

ARICA hybrid rice lines offer high yields and resistance to diseases and environmental stresses. Developed through advanced breeding methods, they must surpass benchmarks in yield and grain quality over three seasons. Field tests show ARICA 1, 2, and 3 outperform NERICA-L 19, boosting rice production and food security in Africa.

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

- Traditional rice varieties in Africa yield inadequately.
- Common rice diseases and pests diminish yields and threaten food security.
- Environmental variability poses significant challenges, affecting crop growth and productivity.
- Traditional rice varieties struggle to adapt to diverse agroecosystems, resulting in suboptimal performance.

Solution

- ARICA varieties offer increased productivity and profitability.
- ARICA lines resist common rice diseases and pests, ensuring stable yields.
- ARICA hybrids withstand environmental stresses, ensuring consistent yields.
- ARICA varieties thrive in diverse agroecosystems, providing flexibility to farmers.
- Some ARICA lines possess traits like drought resistance and iron toxicity tolerance, addressing specific challenges.

Key points to design your program

The ARICA rice varieties deliver higher yields, robust disease resistance, and superior grain quality tailored to African markets.

- Tested in 30 countries with over 3,000 farmers, ARICA supports SDGs by boosting incomes, enhancing food security, and promoting climate-resilient farming.
- As part of the Rice Innovation Toolkit, ARICA integrates seamlessly with advanced practices to maximize yields and sustainability.
- ARICA directly contributes to SDG 1 (no poverty), SDG 2 (zero hunger), and SDG 13 (climate action).

Cost: $$$ **0,8 - 1,2 USD**
Initial cost of a Kg of seed

ROI: $$$ **40 %**
Increase in yield (income)

356 USD
Planting, maintenance, harvesting and winnowing

50 - 111 %
Potential yield

IP
Open source / open access

AfricaRice

Africa Rice Center
Sali Atanga Ndindeng

Technology from

ProPAS

Commodities

Rice

Sustainable Development Goals

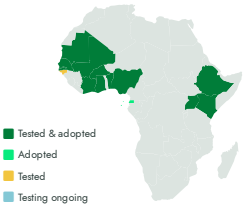
Categories

Production, Improved varieties, Yield improvement, Quality improvement

Best used with

- Nitrogen management for Efficient Rice Fertilization ›
- Foliar micronutrient addition for healthier rice ›
- Precision Rice Irrigation and Surface Leveling ›
- Motorized weeders for rice production ›
- RiceAdvice digital support ›

Tested/adopted in



Where it can be used

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