

Foliar micronutrient addition for healthier rice

Enhancing Yield and Nutrition with Micronutrient Sprays



AfricaRice

Africa Rice Center
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The technology "Foliar Micronutrient Addition for Healthier Rice" is developed to address micronutrient deficiencies in rice crops. The application of micronutrients onto the rice canopy aims to enhance the harvest yield and nutritional quality of the grain without requiring extensive investment or infrastructure.

This technology is **TAAT1 validated**.

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

Gender assessment **3**

Climate impact **6**

Problem

- Crucial deficient of soil in rice-growing areas in crucial micronutrients like magnesium, calcium, copper, zinc, manganese, and boron.
- Low rice yield and micronutrient content

Solution

- The technology supplements essential elements directly to plant leaves,
- Enhances both grain yield and nutritional value. It can be used in various soil conditions.
- The nutrients are quickly absorbed through the leaves, providing immediate benefits to the plant.

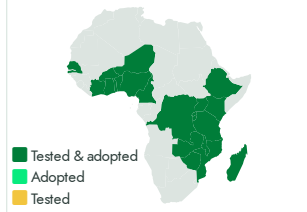
Technology originally documented by
ProPAS

Commodities
Rice

Sustainable Development Goals
8 DECENT WORK AND ECONOMIC GROWTH
2 ZERO HUNGER
3 GOOD HEALTH AND WELL-BEING

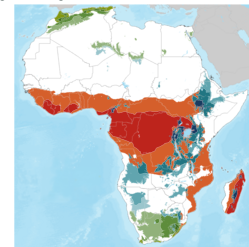
Categories
Production, Practices, Yield improvement

Tested/adopted in



Where it can be used

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



Target groups
Farmers

Cost: **41.1 USD**
Fertilizers

ROI: **7—30 %**
Yield increased

40 USD
Protective kits per person

30—45 USD
Knapsack sprayers with a tank of 20 liter

IP
Open source / open access



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<https://e-catalogs.taatafrica.org/technologies/foliar-micronutrient-addition-for-healthier-rice>

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