Fertilizer Micro-Dosing to Enhance Yield and Use Efficiency

Fertilizer micro-dosing by hand

Small Doses, Big Yields

The Fertilizer Micro-Dosing for Enhanced Yield and Efficiency Technology is a practice that involves applying small amounts of fertilizer in shallow holes at the base of each plant. This precise method is low-risk, affordable, and efficient.

This technology is TAAT1 validated.

8·7 Scaling readiness: idea maturity: 8/9; level of use: 7/9

Cost: $$$ **43 USD**
Opportunity cost per Ha

ROI: $$$ **15—28 %**
Increase in yield

IP
Trademark

Problem

- Nutrient deficiencies in millet and sorghum
- Inefficient and risky fertilizer application methods
- Insufficient nutrient replenishment and gradual soil fertility decline
- Crop failure risk due to drought discouraging fertilizer investment

Solution

- Addressing nutrient deficiencies in millet and sorghum
- Providing a low-risk and precise fertilizer application method
- Fostering rapid crop growth

Key points to design your business plan

Enhance your millet and sorghum cultivation through Micro-Dosing, a precise and low-risk fertilizer application. Estimate your fertilizer needs based on crop type and density, ensuring cost-effective production. Collaborate with agro dealers as main partners.

Gender assessment 4

Climate impact 7

International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)
Dougbedji Fatondji

Technology from

ProPAS

Commodities

Sorghum/Millet

Sustainable Development Goals

2 ZERO HUNGER

8 DECENT WORK AND ECONOMIC GROWTH

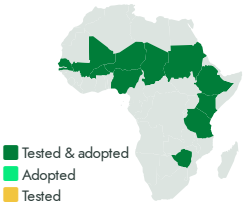
Categories

Production, Practices, Soil fertility, Yield improvement

Best used with

- Millet and Sorghum Varieties for Better Nutrition and Stress Resistance ›
- Dual-purpose Millet Varieties for Crop and Livestock Integration ›
- Proactive Management of Striga Infestation ›

Tested/adopted in



Where it can be used

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