



Precision Fertilizer Micro-Dosing for Millet and Sorghum Yield **Enhancement**





International Crops Research Institute for the

Smarter Fertilizer, Stronger Crops: Maximize Growth with Minimal Input

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**.





Climate impact



Gender assessment



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

Key points to design your project

agricultural institutes and fertilizer distributors.

Solution

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



Semi-Arid Tropics (ICRISAT) Dougbedji Fatondji

Technology from

ProPAS

Commodities

Sorghum/Millet

Sustainable Development Goals





Categories

Production, Practices, Soil fertility, Yield improvement

Best used with

- · Millet and Sorghum Varieties for Better Nutrition and Stress Resistance >
- <u>Dual-purpose Millet Varieties</u> for Crop and Livestock Integration >
- Proactive Management of Striga Infestation >

(Cost: \$\$\$) 43 USD



(ROI: \$\$\$) 15—28 %

Opportunity cost per Ha

 \bigcirc_{IP}

Trademark

Micro-Dosing, a precise fertilizer application for millet and sorghum, offers low-risk and gender-sensitive

benefits, promoting rapid crop growth and aligning with climate-smart practices. To integrate, identify crop-

specific fertilizers, raise awareness, estimate fertilizer quantities, consider delivery costs, and collaborate with

Increase in yield



Where it can be used

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





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https://e-catalogs.taat-africa.org/gov/technologies/precision-fertilizer-micro-dosing-for-millet-andsorghum-yield-enhancement

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