

Precision Fertilizer Micro-Dosing for Millet and Sorghum Yield Enhancement



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

Cost: **43 USD** ROI: **15–28 %**
 Opportunity cost per Ha 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 Climate impact

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 >](#)
 - [Dual-purpose Millet Varieties for Crop and Livestock Integration >](#)
 - [Proactive Management of Striga Infestation >](#)

