

# Millet and Sorghum Varieties for Better Nutrition and Stress Resistance

Strong Crops, Healthy People



Hybrid sorghum « Pablo »

The 'Millet and Sorghum Varieties for Better Nutrition and Stress Resistance' technology offers a game-changing solution for African agriculture. These highly nutritious and resilient varieties, fortified with elevated iron and zinc levels, thrive in challenging climate conditions, providing farmers with a reliable risk management strategy.

This technology is **TAAT1 validated**.

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

Cost: \$\$\$

**14 - 18 USD**

Seed for one hectare of land for sorghum

**8 - 12 USD**

Seed for one hectare of land for pearl millet

**35 - 45 USD/Ha**

A ton of animal manure cost

**120 - 150**

USD/Ha  
Inorganic fertilizer cost

## Problem

- **Low Yields, Food Insecurity:** Millet and sorghum in Africa yield below potential, leading to hunger and malnutrition, exacerbated by climate challenges.
- **Nutrient Deficiency, Limited Access:** Traditional millet and sorghum lack essential nutrients like iron and zinc, impacting nutrition.

## Solution

- **Advanced Varieties:** New millet and sorghum strains are high-yielding, bio-fortified, and resilient to climate challenges, ensuring productivity and nutrition.
- **Expanded Access and Utilization:** Collaborative efforts have made these varieties widely available for farmers.

## Key points to design your business plan

This technology offers a powerful solution to enhance nutrition and boost resilience.

**For Seed Multiplier** to contribute:

- Seed Stock: Acquire high-quality seeds for multiplication.
- Royalty-Free Multiplication: Multiply seeds without a license.
- Compliance: Adhere to national standards for certification.
- Target Customers: Supply seeds to distributors and collaborate with development projects.

**For Farmers** to use these varieties:

- Collaborate with sellers and strengthen local seed systems.
- Estimate costs and assess yield per hectare.
- Explore local markets and calculate potential profit.



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

Technology from

ProPAS

Commodities

Sorghum/Millet

Sustainable Development Goals



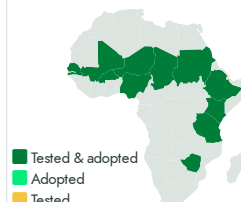
Categories

Production, Improved varieties, Drought tolerance, Heat tolerance

Best used with

- [Precision Fertilizer Micro-Dosing for Millet and Sorghum Yield Enhancement >](#)
- [Flour Milling and Blending Systems for Wheat, Sorghum and Millet >](#)
- [Warrantage Inventory and Credit System >](#)
- [Proactive Management of Striga Infestation >](#)
- [Contour Bunds for Water Harvesting >](#)

Tested/adopted in



Tested & adopted  
 Adopted  
 Tested

Gender assessment

Climate impact



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<https://e-catalogs.taatafrica.org/com/technologies/millet-and-sorghum-varieties-for-better-nutrition-and-stress-resistance>

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