

# Millet and Sorghum Varieties for Better Nutrition and Stress Resistance

Strong Crops, Healthy People

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.



Hybrid sorghum « Pablo »



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

Technology from

[ProPAS](#)

Commodities

Sorghum/Millet

Sustainable Development Goals



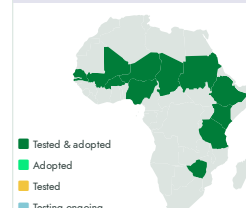
Categories

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



Legend:  
■ Tested & adopted  
■ Adopted  
■ Tested  
■ Testing ongoing

✓ This technology is **TAAT1 validated**.

7/7



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

Gender assessment

4

Climate impact

7

## 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.

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



Millet and Sorghum Varieties for Better Nutrition and Stress Resistance

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

Last updated on 22 May 2024, printed on 10 December 2024

Enquiries [e-catalogs@taatafrica](mailto:e-catalogs@taatafrica)