

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

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Technology from

[ProPAS](#)

Commodities

Sorghum/Millet

Sustainable Development Goals



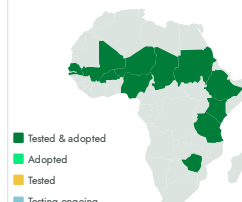
Categories

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



Map 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.

Key points to design your project

Improved millet and sorghum varieties that enhance nutrition, climate adaptation, and yield stability. They align with SDGs, including Zero Hunger, Climate Action, and Gender Equality.

Adoption Activities:

1. **Baseline Assessment:** Understand current practices and challenges.
2. **Awareness Campaign:** Educate farmers about benefits and access.
3. **Seed Distribution:** Provide high-quality seeds.
4. **Training Workshops:** Equip farmers with necessary skills.
5. **Demonstration Plots:** Showcase technology effectiveness.
6. **Field Days:** Engage farmers directly.
7. **Market Linkages:** Connect to buyers and processors.
8. **Scaling Up:** Expand adoption to more communities.

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://taat.africa/pao>

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