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.

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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	**8 - 12 USD**	**35 - 45 USD/Ha**	**120 - 150 USD/Ha**
Seed for one hectare of land for sorghum	Seed for one hectare of land for pearl millet	A ton of animal manure cost	Inorganic fertilizer cost

Technology originally documented by

ProPAS

Commodities

Sorghum/Millet

Sustainable Development Goals

2 ZERO HUNGER

13 CLIMATE ACTION

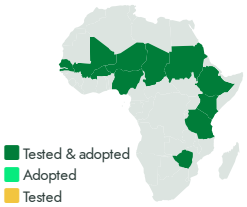
Categories

Production, Improved varieties, Drought tolerance, Heat tolerance

Best used with

- Fertilizer Micro-Dosing to Enhance Yield and Use Efficiency ›
- Flour Milling and Blending Systems ›
- Warrantage Inventory and Credit System ›
- Proactive Management of Striga Infestation ›
- Contour Bunds for Water Harvesting ›

Tested/adopted in



Where it can be used

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