PAC 501 High yielding white grain sorghum hybrid

Unleash Prosperity with Our Drought-Tolerant White Grain Sorghum Hybrid

The High-Yielding White Grain Sorghum Hybrid Technology is a new sorghum hybrid with high productivity, reaching up to 4.5 tons per hectare, effectively doubling typical yields. Its key feature is drought tolerance, ensuring reliable yields despite variable rainfall. This advancement enhances agricultural resilience.

This technology is pre-validated.

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

Gender assessment 4

Climate impact 6

Problem

Low Yields:

- Sorghum crops face suboptimal yields, posing challenges for food security and farmers' income.
- Inefficient cultivation methods and less productive sorghum strains contribute to these low yields.

Moisture Stress:

- Frequent periods of moisture stress negatively impact the growth and development of sorghum crops.
- Inadequate water availability during critical growth phases can result in significant yield losses.

Solution

- High Yields: Achieves remarkable sorghum yields, combating historically low production.
- Moisture Stress Resilience: Demonstrates robust performance under water scarcity conditions, mitigating crop growth impact.
- Optimal Responsiveness to Inputs: Highly responsive to key inputs, particularly fertilizer, optimizing resource use for improved yield and quality.
- Double Yield Potential: Offers double the yield potential compared to Open Pollinated Varieties (OPVs), addressing low yields in traditional sorghum cultivation.
- Increased Return on Investment: Farmers can expect significantly higher returns due to doubled yield potential, marking a substantial improvement over conventional farming practices.

Key points to design your project

- The high yielding white grain sorghum hybrid technology boosts sorghum yields, aiding in poverty alleviation and combating food insecurity.
- Its drought tolerance enhances agricultural resilience to climate change.
- Improved cultivation practices contribute to land resource conservation and biodiversity.
- Steps for integration include conducting awareness campaigns, collaborating with public and private entities, providing capacity building for seed producers, and facilitating access to low-interest credit options.
- Collaboration with stakeholders such as seed companies, cooperatives, growers, and farmers is crucial for successful implementation.

Cost: $$$ **28** USD/ha

Average cost of seeds for a farmer

ROI: $$$ **288** %

Gross income/inputs costs

800 USD/ha

average gross income

Advanta Seeds
Florent Clair

Commodities

Sorghum/Millet

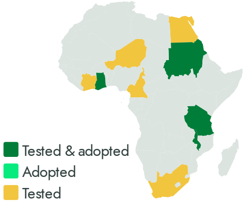
Sustainable Development Goals

2 ZERO HUNGER
3 GOOD HEALTH AND WELL-BEING
13 CLIMATE ACTION

Categories

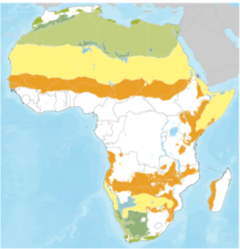
Production, Improved varieties, Yield improvement, Quality improvement

Tested/adopted in



Where it can be used

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



Target groups

Farmers, Seed companies