

PAC 501: High yielding and drought tolerant white grain sorghum hybrid

Unleash Prosperity with Our Drought-Tolerant White Grain Sorghum Hybrid



Advanta Seeds
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PAC 501 is a high-yielding, drought-tolerant sorghum hybrid that produces 4-4.5 tons per hectare, with early maturity and high nutritional value. It is widely adopted in Africa, improving productivity and resilience in areas with unpredictable rainfall.

This technology is **pre-validated**. 9-9 Scaling readiness: idea maturity 9/9; level of use 9/9

Gender assessment 4

Climate impact 4

Commodities
Sorghum/Millet

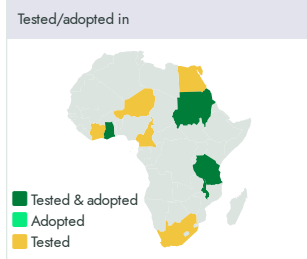
Sustainable Development Goals

2 ZERO HUNGER

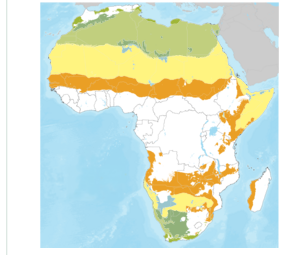
3 GOOD HEALTH AND WELL-BEING

13 CLIMATE ACTION

Categories
Production, Improved varieties, Yield improvement, Quality improvement



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



Target groups
Farmers, Seed companies

Problem

- 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.
- 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

This new varieties:

- Demonstrates robust performance under water scarcity conditions, mitigating crop growth impact.
- Highly responsive to key inputs, particularly fertilizer, optimizing resource use for improved yield and quality.
- Offers double the yield potential compared to Open Pollinated Varieties (OPVs), addressing low yields in traditional sorghum cultivation.

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 farmer

ROI: \$\$\$ **288 %**

Gross income/inputs costs

800 USD/ha

average gross income