

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

Unleash Prosperity with Our Drought-Tolerant White Grain Sorghum Hybrid



Advanta Seeds
Florent Clair

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

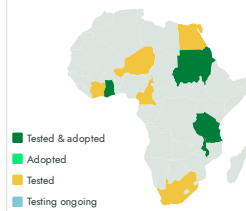
Sustainable Development Goals



Categories

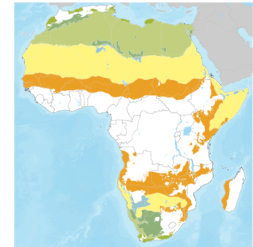
Production, Improved varieties, Yield improvement, Quality improvement

Tested/adopted in



Where it can be used

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



Target groups

Farmers, Seed companies

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 program

The PAC 501 High-Yielding and Drought-Tolerant White Grain Sorghum Hybrid provides up to 288% higher gross income compared to traditional varieties, making it an ideal option for smallholder farmers facing heat stress and poor soil fertility.

- Aligned with SDG 2 (food security), SDG 13 (climate resilience), and SDG 3 (health and well-being), this hybrid supports improved yields, better nutrition, and climate-smart farming.
- It works in synergy with other technologies like Precision Fertilizer Micro-Dosing to optimize production under challenging conditions.
- Ideal for development programs focused on food security and sustainability, the PAC 501, supported by ADVANTA Seeds, provides technical support for successful implementation across Sub-Saharan Africa.

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

Average cost of seeds for farmer

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

Gross income/inputs costs

800 USD/ha

average gross income



PAC 501

<https://e-catalogs.taatafrica.org/technologies/pac-501-high-yielding-and-drought-tolerant-white-grain-sorghum-hybrid>

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