

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**.



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

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

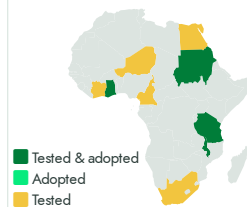
Sustainable Development Goals



Categories

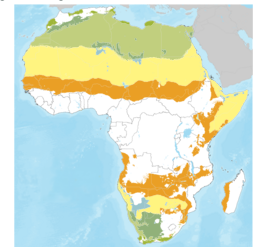
Production, Improved varieties,
Yield improvement, Quality improvement

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

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 business plan

Seed Producers:

- High yielding white grain sorghum hybrid technology significantly increases sorghum yields, enhancing food security and farmers' economic prosperity.
- To scale seed production effectively, procure Foundation or Registered Seed as per your role in the seed development cycle, without any licensing requirement for multiplying these seeds.
- Potential customers include wholesale seed distributors, cooperatives, development projects, governmental agencies, and NGOs. Strong partnerships with wholesale distributor networks are essential for business sustainability

Users:

- Utilizing High yielding white grain sorghum hybrid technology ensures dependable production even in adverse environmental conditions, empowering farmers to refine agricultural methods, increase earnings, and promote sustainable development.
- Accessible in various countries like Cameroon, Sudan, Tanzania, Egypt, Ghana, Côte d'Ivoire, Niger, Malawi, and South Africa, with cultivation costs averaging USD 28 per hectare for seeds and USD 250

per hectare for inputs.

- Estimated return on investment (ROI) is 2.88 (gross income/inputs costs), excluding labor expenses.
- Establishing partnerships with private seed companies, cooperatives, and seed growers is vital for successful adoption.

Gender assessment



Climate impact



PAC 501

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

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