

PAC 740: Orange maize hybrid

High yielding orange maize hybrid, medium maturity with high field tolerance to drought

Orange Maize PAC 740 is a high-yielding, protein-rich variety that produces up to 11 tons per hectare and matures in 115 days. It is drought-tolerant and resistant to maize leaf blight, making it ideal for food and poultry farming in challenging environments across India, Thailand, and several African countries.



Advanta Seeds
Ibrahim Shiundu

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

Project adoption **3**

Technology integrated in the Guinea, PADCV-PTA, and PUPSAN projects, in Guinea, Democratic Republic of the Congo, and Mali.

Inclusion assessment **4**

Climate impact **6**

Commodities
Maize

Sustainable Development Goals

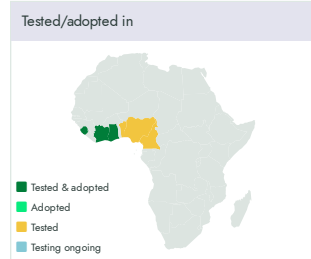
Categories
Production, Improved varieties, Yield improvement, Quality improvement

Problem

- Farmers struggle with low yields, affecting productivity and food security.
- Water scarcity in water-stressed regions limits crop growth and agricultural viability.
- Farmers seek versatile maize varieties for both grain production and livestock fodder.
- Targets diseases like blight, which can harm crop health and yield.
- Aims to boost profitability by offering seeds with double yield potential compared to traditional varieties.

Solution

- It resists foliar diseases like blight, ensuring healthier crops and minimizing yield loss.
- Thrives in limited water conditions, mitigating the impact of moisture stress.
- Designed for increased productivity compared to standard varieties.
- Serves as both grain producer and livestock fodder.
- Offers twice the yield potential of standard varieties, ensuring higher returns on investment.



Where it can be used

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

Target groups
Farmers, Seed companies

Key points to design your program

Orange Maize Hybrids can be integrated into food security, nutrition, climate resilience, seed system, and maize development programs to improve productivity, strengthen resilience, and increase access to nutritious foods. Its adoption contributes to **SDG 1, SDG 2, SDG 3, and SDG 13**.

To integrate this technology into your project, plan and budget for the following activities and prerequisites:

- Facilitate access to quality orange maize hybrid seeds and advisory services.
- Build partnerships with Advanta Seeds, seed companies, research institutes, extension services, cooperatives, and private sector actors.
- Train farmers on improved maize production, nutrient management, and integrated pest and disease management.
- Promote women's and youth participation in seed systems, production, and value addition activities.
- Monitor adoption rates, maize yields, household food security, crop losses, and farmer incomes.

540 USD/ha Total input costs	2000 USD/ha Estimated average gross income	IP Open source / open access
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