

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

Commodities

Maize

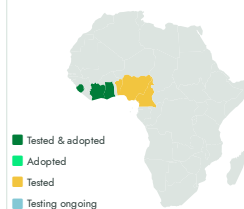
Sustainable Development Goals



Categories

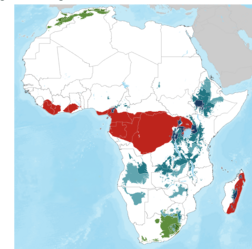
Production, Improved varieties,
Yield improvement, Quality improvement

Tested/adopted in



Where it can be used

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



Target groups

Farmers, Seed companies

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

- 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.

Key points to design your project

This technology improves crop yields, food security, and farmer income while aiding poverty reduction. Its drought-tolerant maize variety enhances climate resilience, and its disease resistance and soil health promotion support sustainable land management and biodiversity. Its dual-purpose nature promotes resource efficiency. To integrate it into a project:

- Estimate seed quantity needed based on cost and seed requirement.
- Consider delivery costs and import clearance from Kenya.
- Allocate resources for training and post-training support.
- Develop communication materials.
- Optimize the maize variety with legume intercropping and manure application.
- Collaborate with agricultural institutes and seed companies for implementation.

Cost: **127 USD/ha**

Average cost of seeds for a farmer

30 %

Estimated ROI

540 USD/ha

Total input costs

2000 USD/ha

Estimated average gross income



Open source / open access



PAC 740

<https://taat.africa/cgh>

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