

Biological control of mango mealybug

Natural Allies for Mango Mealybug Control

An affordable and sustainable pest control solution—two natural enemies control mango mealybug effectively, boosting yields, incomes, and resilience for smallholder farmers across Africa.



This technology is **pre-validated**.

9·7



Scaling readiness: idea maturity 9/9; level of use 7/9

Gender assessment

3

Climate impact

5

Problem

- **Invasive Pest Outbreak:** The mango mealybug (MM) invaded Africa in the 1980s, severely affecting fruit trees.
- **Economic Losses:** The infestation caused significant financial damage for farmers and local agriculture.
- **Agricultural Sustainability Threat:** The pest compromised fruit production, impacting food security and long-term sustainability.
- **Demand for Eco-Friendly Control:** The situation underscored the need for sustainable, biological pest control alternatives to harmful chemicals.

Key points to design your program

This biocontrol solution is low-cost, ready for scale, and aligned with sustainable agriculture goals. It requires minimal infrastructure—only coordination with national plant protection services for release and monitoring. Research costs are already covered, and implementation needs are limited to technical support and biological material. Its track record in multiple countries shows clear return on investment, making it an efficient addition to programs focused on resilient food systems, agroecology, and pesticide reduction.

10000 USD

Starter cultures, rearing and expert guidance



No formal IP rights

Commodities

Mango

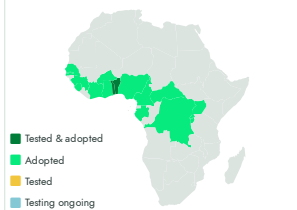
Sustainable Development Goals



Categories

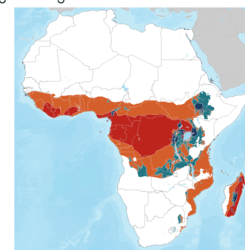
Production, Practices, Biological control

Tested/adopted in



Where it can be used

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



Target groups

Governments



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<https://e-catalogs.taatafrica.org/technologies/biological-control-of-mango-mealybug>

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