Fast Growing and Hybrid African Catfish

Boosting Aquaculture with Resilient, Fast-Growing Catfish Hybrids

Fast Growing and Hybrid African Catfish" is developed to enhance freshwater farming in Sub-Saharan Africa. This technology involves the selective breeding and hybridization of two catfish species to create a superior hybrid offspring (Hetero-Clarias). The process of hybridization requires hormone-induced egg release in female catfish and the collection of seminal fluids from male catfish,...

This technology is TAAT1 validated.

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

Cost: $$$ **0.025—0.09 USD**

per gram of Catfish fingerlings

2500—3500 USD

Feed inputs for 8600—10000 Catfish fingerlings

ROI: $$$

per year

IP

Open source / open access

Problem

- Limited availability of quality fingerlings
- Inadequate hatchery facilities
- High cost of fish feed
- Need for training for fish farm operators

Solution

- The Hetero-Clarias hybrid exhibits superior growth rate, higher survival, and greater hardiness compared to the parent species.
- Certified hatcheries provide a secure means to increase local supply of fast-growing and hybrid catfish.
- The produced hybrid catfish is sterile, allowing it to channel energy primarily into growth, resulting in better feed conversion and growth rates.

Key points to design your business plan

The fast-growing and hybrid African Catfish technology presents opportunities for Fingerling Multipliers and users, including Fish farmers and aggregators.

- To succeed in this venture, they need to ensure proper pond construction,
- quality water supply, breed selection, and balanced feed provision.
- Certification is necessary to propagate these varieties, complying with licensing requirements in Sub-Saharan Africa.

Gender assessment 4

Climate impact 7

WorldFish
Bernadette Fregene

Technology from

ProPAS

Commodities

Fish

Sustainable Development Goals

2 ZERO HUNGER
3 GOOD HEALTH AND WELL-BEING
8 DECENT WORK AND ECONOMIC GROWTH
12 RESPONSIBLE CONSUMPTION AND PRODUCTION

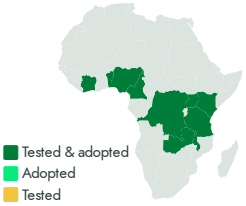
Categories

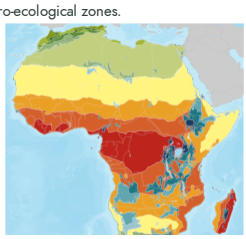
Production, Improved varieties, Yield improvement

Best used with

- Pond Liners to Save Water and Ease Maintenance ›
- Hapa Nets for Fingerling ›

Tested/adopted in



Where it can be used

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