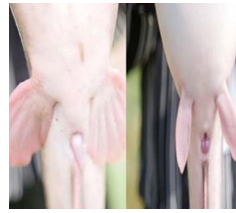


Fast Growing and Hybrid African Catfish

Boosting Aquaculture with Resilient, Fast-Growing Catfish Hybrids



WorldFish
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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 ...

This technology is **TAAT1 validated**. 7-7 Scaling readiness: idea maturity 7/9; level of use 7/9

Gender assessment 8 4

Climate impact 8 7

Technology from
ProPAS

Commodities
Fish

Sustainable Development Goals

Categories
Production, Improved varieties, Yield improvement

Best used with

- [Pond Liners to Save Water and Ease Maintenance >](#)
- [Hapa Nets for Fingerling >](#)

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 project

The fast-growing and hybrid African Catfish technology presents significant benefits for food security enhancement and climate resilience. To integrate this technology, consider activities such as:

- Pond construction, ensuring water quality, sourcing matured breeds or fingerlings, and providing balanced feed.
- Conduct awareness campaigns among farmers, ensure equitable access to fingerlings, estimate quantity and costs, engage trainers for support, and develop communication materials.

Tested/adopted in

■ Tested & adopted
■ Adopted
■ Tested

<p>Cost: \$\$\$ 0.025—0.09 USD per gram of Catfish fingerlings</p>	<p>ROI: \$\$\$ per year</p>
<p>2500—3500 USD Feed inputs for 8600—10000 Catfish fingerlings</p>	<p>IP Open source / open access</p>

Where it can be used

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

