

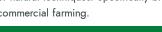


GIFT "Genetically Improved Farmed Tilapia" All Male Tilapia Fingerlings with Greater Yield and Uniformity



Greater yield and uniformity in tilapia farming

The technology involves predominantly growing male tilapia. This can be achieved through various methods such as manual selection, hormone treatment, or natural techniques. Specifically bred tilapia (GIFT) is recommended for commercial farming.



This technology is **TAAT1** validated.









30 %

Stocking rate of 1,000 fish per cubic meter of water

Harvest volume increased

0.1 usp

300 - 900 a



Cost of one month mono-sex fingerlings in Kenya

Weight of male fingerlings stocked in cages in 5 to 8 months of culture

Patent granted

Problem

- · Mixed-sex tilapia culturing often leads to lower yields and non-uniform harvests.
- · Manual sex selection at the beginning of the production cycle is time-consuming.
- Hormonal alteration of fry involves the application of α-Methyltestosterone, which may pose concerns regarding its use in feed and its impact on fish health and the environment.

Solution

- · Utilizing improved lines of tilapia breeds can enhance the effectiveness of manual selection, hormonal treatment, YY male technology, and
- Crossbreeding strategies can produce 100% male offspring, improving mono-sex tilapia production
- Careful management of brood stock selection in hatcheries, focusing on younger brooders free from wounds and parasites, ensures high-quality and abundant fish seed production.

WorldFi WorldFish Bernadette Fregene

Technology from

ProPAS

Commodities

Fish

Sustainable Development Goals





Production, Practices, Yield improvement

Best used with

• Hapa Nets for Fingerling >





This technology can be used in the colored



Target groups

Breeders

Key points to design your business plan

This technology benefits manufacturers, resellers, and users:

- Manufacturers can boost profitability and efficiency with up to 98% all-male tilapia stocks. Strategic collaborations with research institutions and genetic breeding programs can refine production traits.
- · Resellers provide access to high-quality, genetically improved mono-sex tilapia broodstock. Collaborative opportunities exist with equipment suppliers and distributors to expand market reach.
- · Users, particularly fish farmers, benefit from reliable growth rates, disease resistance, enhancing productivity and profitability. Comprehensive training programs and collaborations with support services ensure successful tilapia farming practices.

Gender assessment



Climate impact



