

Cage Systems for Fish farming

Cage Culture: Dive Deep for a Sustainable Leap!

Cage Systems for Fish Culturing is a method where young fish are grown in submerged cages in large water bodies. The cages protect the fish, provide nourishment, and monitor their health. Once mature, the fish are harvested. This technique allows for natural, secure, and regulated fish farming, akin to a floating aquaculture facility.



Floating cage for tilapia farming inside Lake Victoria (Credit: Erick Ochieng Ogello)

WorldFish
Bernadette Fregene

This technology is **pre-validated**.

8-8 Scaling readiness: idea maturity: 8/9; level of use: 8/9

150 USD
Fish cage of 8 cubic meter

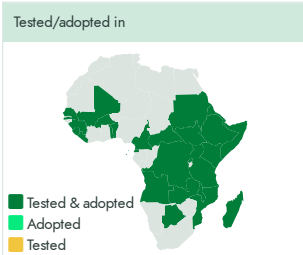
Open source / open access

Commodities
Fish

Sustainable Development Goals

Categories
Production, Equipment, Aquaculture Systems

- Best used with
- [All Male Tilapia Fingerlings with Greater Yield and Uniformity >](#)
 - [Fast Growing and Hybrid African Catfish >](#)



Where it can be used

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

Target groups
Fish Farmers

Problem

- Space and Control:** Traditional fish farming requires large, expensive land and lacks control in open waters, leading to losses from predators and disease.
- Water Quality:** In other forms, especially in small ponds, water quality can deteriorate quickly causing problems like low oxygen levels and harmful substance buildup.
- Environmental Impact:** Some methods can negatively impact the environment, such as causing pollution from waste products.
- Unpredictable Events:** In open waters, upwelling events can drastically change conditions in the cage, affecting fish health.

Solution

- Space and Control:** Cage systems efficiently use water bodies, reducing the need for large land areas and providing a controlled environment for the fish.
- Water Quality:** They help manage water quality issues common in other forms of aquaculture.
- Environmental Impact:** Cage systems aim to minimize the environmental impact of aquaculture.
- Upwelling Events:** High-tech solutions have emerged to predict and mitigate upwelling events.

Key points to design your business plan

Manufacturers: The growing demand for open-water fish farming presents an opportunity for cage system manufacturers. Design versatile, corrosion-resistant cages that cater to various fish species and farm sizes. Target both small and large scale fish farms, as well as government and NGO aquaculture projects.

Resellers: Benefit from the consistent need for reliable cage systems in the aquaculture market. Source high-quality cages from reputable manufacturers, maintain a diverse range of cage sizes and functionalities, and ensure efficient logistics for transportation and storage.

Fish Farmers: Cage systems offer numerous advantages, including the potential for improved fish health due to natural water flow and lower disease control costs. Choose corrosion-resistant cages and select the right size and anchoring system based on your specific needs. Partner with reputable manufacturers and invest in staff training for successful fish farming.

Gender assessment

Climate impact

