

4. Packaging and marketing

- 100-g packs or as desired
- Sold at P50.00 and P20.00 per 100 g of tilanggit and dried fish bones, respectively.

Return on Investment



Concrete tanks measuring 10–500 m² with a depth of 1–1.5 m and provided with efficient life support systems are stocked with 1–2 g fingerlings at a stocking rate of 100–150 fingerlings/m³. Water exchange is done daily at 10–20% of total volume. Home-made or commercial feeds with 25–30% crude protein content are used at 7% of body weight, adjusted every 15 days. Culling for heterogeneous individual growth is done starting after 60 days of culture and fish are processed for tilanggit. Total harvest, with survival rate of 90–95%, is done 90 days of culture. Recovery is 20% dried boneless young tilapia (tilanggit) and 5% dried fish bones. Profitability shows a high return of investment of 33.23% with a payback period of three years.

Source:

Philippine Council for Aquatic and Marine Research and Development. Tilapia farming for tilanggit production. Los Baños, Laguna: PCAMRD-DOST, 2009.

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Department of Science and Technology (DOST)



Tilapia Farming for Tilanggit Production

Increasing demand for animal protein has provided more opportunities for aquaculture. Having the improved culture technology (i.e., shortened culture period), tilapia is ideal for aquaculture.

A viable option for addressing the shortened culture period for small-sized tilapia is the production of value-added products like “tilanggit.”

The term “tilanggit” is derived from “tilapiang malinggit,” which means small-sized tilapia processed similar to boneless “danggit.”



Protocol for Tilanggit Production

Grow-out

1. Tank preparation and water filling
 - tanks disinfected, cleaned, filled with clean water
 - aerators and pumps provided



2. Application of fertilizers

- three days before stocking of fry, inorganic fertilizers applied

3. Stocking of fingerlings

- 1–2 grams (g) BW fingerlings stocked at 100–150 fingerlings/m²

Days of Culture (days)	Average Body Weight (g)	Number of Stocks (pcs)	Feed Rate (%)	Feeding Frequency
1–15	1	20,000	7	4
16–30	5	19,000	5	4
31–45	10	18,600	3	4
46–60	15	18,200	3	4
61–75	21	16,200	2	3
76–90	30	13,770	2	3

Source: Arriesgado, D.M. Tilapia farming for tilanggit production. Naawan, Misamis Oriental: MSU, n.d.

4. Feeding management

- Commercial feeds with 25% protein

Processing

1. Deboning

2. Preparation of brine solution



- Mix 4% salt, 0.05% garlic, and 0.03% black pepper in water
- Marinate for 6–8 hours

3. Fish drying

- Sundry for 8–10 hours or mechanically dry