

# BEST MANAGEMENT PRACTICES IN RAISING TILAPIA FOR ECONOMIC EMPOWERMENT AMONG YOUTH IN KAKAMEGA COUNTY, KENYA

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## Introduction

Fish farming is an emerging blue economy in Africa where if youth are well trained can be a source of livelihoods and food security.

## Objective

To raise 0.4 g fry to 350g in 6 months on high quality feed from Aller Aqua Company

## The Experiment

Experimental design was adopted for the study. A group of 27 youth fish farmers were selected to raise tilapia fingerlings from 0.4g to 350g in 2017.

The youth were provided with 1000 all male fingerlings of 0.4 g. sampling was done intervals to check on weight gain.

Water temperature and other parameters were taken 3 times a day. The first two months the fry were raised in hapa nets to minimize predation.

## Feeding Protocols

First two months feeding was six (6) times a day at interval of 2 hours on grumble of 44% crude protein.

Third month fingerlings transferred to fertilized pond and fed five (5) times a day on 2mm feed of 38% crude protein

## RESULTS

Time (Days)	Date of sampling	Sample Size	Total Weight(g)	Average Weight(g)	Est. Weight Gain (g)	Water Temp(°C)	Time of sample
0	28/1/2017	1000	400	0.4			Stocking
26	23/2/2017	40	80	2	1.6	26	6.00 pm
49	18/3/2017	40	3700	93	10	26	5.30 pm
70	8/4/2017	40	6000	150	3	27	6.00 pm
132	7/6/2017	40	6333	240	90	23	6.00 pm
180	27/7/2017	40	14,200	355	115	27	6.00 pm



## CONCLUSION

Feeding protocols influence fish growth.

Water quality influence fish growth.

On farm best practices influence fish growth.

Feed quality is influence to fish growth. Recommendation  
The government to train youth on precision aquaculture practices.