



HIGH DENSITY TILAPIA



The tilapia production in Brazil reached the mark of 486,000 tons in 2020, consolidating the country as the 4th largest producer in the world. The South Region represents 44%, with a total of 213,000 tons, been Paraná State the largest national producer of this species, with 166,000 tons (Peixe BR, 2021). The most popular production model used in the South is high density ponds. With the system intensification, the accumulation of nitrogenous excreta and undigested diet increases the content of organic matter diluted in water and accumulated in the ludge, quantitatively and qualitatively modulating the aquatic microbiota.

As some bacteria adapt quickly on these conditions and become a potential pathogen for aquatic organisms, it is crucial to manage of the environment and the microorganisms present in the aquaculture systems. Prophylactic management has provided a ambience for high-density production systems. In this context, the most practices been used is: Vaccination, molecular and PCR identification of the pathology, reduction in the indiscriminate use of antimicrobials, use of probiotics as bioremediators and nutritional additives, among others.

THIS NEWSLETTER WILL FEATURE AN INTERVIEW WITH PRODUCER ADRIANO JOSÉ BACK, WHO WILL ADDRESS THE RESULTS WITH THE USE OF IMEVE BIOREMEDIATORS.

Fish farm Back

Producer: Adriano José Back
Fishfarm Size: 1 hectare
City: Santa Helena - PR
Productivity: 80t hectare/ano



1- How long fish farming has been operating?

Adriano: Fish farming has been in operation for 5 years.

2- What are the mainly challenges faced in production?

Adriano: The main challenges are related to maintaining optimal animal health and controlling nitrogenous compounds such as ammonia and nitrite. For this, it is important to find good quality inputs such as fingerlings, feed and efficient bio-remediators.

3- Have you ever had losses for any pathology? In case, which one?

Adriano: I already had losses due to a series of pathologies, mostly bacterioses. However there was a lack of technical follow-up for diagnosis and remediation of pathologies.

4- When did you start using bioremediators in fish farming?

Adriano: We started to use bioremediators about 3 years ago (2018). We evaluate several brands but always with low performance in the reduction and control of ammonia and nitrite.

5- What can you say about the probiotic Prob Tr Concentrate, used in fish farm?

Adriano: The results obtained with PROB TR CONCENTRADO were the reduction and control of ammonia and nitrite. Consequently, there was no constant need for water exchange and with that, we achieved a considerable reduction in energy costs. In addition, the distributor's technical follow-up has made a big difference in the results obtained.

6- How much do you have spend with the use of the Probiotic?

Adriano: We had an approximate cost of \$0.007 per kg of fish produced. Less than 1 cent per kg.

7- what are the prospects for fish farm in the next years?

Adriano: Today, our perspective is increase productive area, thus increasing productivity and taking advantage of the market opportunity. Thus bringing greater profitability and achieve the dream started 5 years ago.



Lyophilized additive probiotic based on live and protected bacillus genus bacteria. The use contributes to a biological stimulation of the system and improves the aquatic environment, balancing and controlling nitrogenous compounds.

The bacteria that composes the product are strategically selected for their nitrifying property, with the synthesis of the nitrite reductase enzyme. Rapidly degrading nitrite levels.