



The growth rates of mud feed fish are least

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Abstract:

In inland fisheries scenario this is being found that growth rate of mud feeding fishes are minimum. As known in Indian Major Carps growth rate in Mrigala. (*Cirrhinus mrigala*), a bottom feeder has least growth rate. Next is found Rohu (*Labeo rohita*) middle feeder. A moderate mud feeder. The most growth rate is found in Catla (*Catla catla*) as there is least mud and hence maximum growth rate is found with being least muddy top feeder is promising fish and fisheries. The mud consisting of clay particles depending upon their value of Cationic Exchange Capacity (CEC) controlling fish growth at greater extents by depleting essential positive ions from fish-body. As the clay particle after penetrating in to the stomach or throughout the intestinal ducts can exchange or adsorb essential cationic ions which may helpful to fishes at the bottom layers. The essential cationic ion act as a cellular or tissue formation, and transmission of signals apart from the active site of necessary enzymes. Essential cationic ions hence depleted from fish intestinal or their duct and gill tissues. Being fisheries professional, our motto in management recommendation in fisheries is that bottom mud is need to be removed from the bottom often if not possible, alternatively clay should be replaced with sand in obtaining better fish growths when human needs are to prefer commercial fisheries. This scientific communication may also hold good for other aquatic-species in inland fisheries and hence alternative to earthen pond-concepts in fisheries is beneficial to obtain better growths in experimental inland fisheries.



Biography:

Dr Debabrata Das, ARS, India Worked at ICAR-CIFRI, Barrackpore, Presently posted at ICAR-CIFRI, Kolkata Centre, Salt lake, Kol-700064 (India)

Recent Publications:

1. Microbial Growth Kinetics, Substrate Degradation, and Product Formation
2. Transport Phenomena of Bioprocesses
3. Chemical Reaction Thermodynamics, Kinetics, and Reactor Analysis
4. Industrial Fermentation Processes

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