

POTENTIAL BACTERIAL DISEASES, PARASITIC INFECTIONS AND PUBLIC HEALTH HAZARDS ASSOCIATED WITH ORGANIC MANURE - POND FISH CULTURE: A CASE STUDY OF KAINJI LAKE AREA, NIGERIA.

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Abstract

Pathogens bacterial diseases, parasitic infections and public health association with pond fish culture using organic manures, from different livestock animal that serve as substrates, for nutrient – recycling mechanism in the aquatic environment were investigated in kainji lake area, Nigeria. The occurrence of bacterial and parasitic pathogens was related to the physiological conditions, food and feeding habits, and migratory activities of fish and the pathological effects exerted on the fish. Thus, in most bacterial, fungal and protozoan infections predisposing factors are required for them to cause manifestations. The occurrence of bacterial disease and parasitic infections association with pond fish culture; using organic manures from different livestock animals; and their potential public health hazards to fish handlers (Farmers, buyer and consumers). And its fish biomass production through the manure – nutrient – recycling mechanism was highlighted.

Keywords: Bacterial diseases, parasitic infections, pond culture, organic manure, fishes, hazards