

TITLE: " PHYSICOCHEMICAL PARAMETERS AND MICROBIOLOGICAL QUALITY OF RECREATIONAL FISHING TANKS WATER AT PRESIDENTE PRUDENTE-SP"

AUTHORS: GOMES, M.B.¹; ANTUNES, P.S.²; WINKELSTROTER, L.K.^{2,3}

INSTITUTION: ¹Curso de Ciências Biológicas, UNOESTE. Presidente Prudente – SP, Brasil; ²Curso de Nutrição, UNOESTE. Presidente Prudente – SP, Brasil.; ³ Mestrado em Ciências da Saúde, Universidade do Oeste Paulista (UNOESTE). Presidente Prudente – SP, Brasil. Rua José Bongiovani, 700, Cidade Universitária, Presidente Prudente, SP, Brasil. CEP: 19.050-920

ABSTRACT: Pay-to-fish ponds are a common commercial activity in Brazil. The success of the fish culture systems need some control of the water such as physical, chemical and biological. Inadequate water quality results in impairment of the growth, reproduction, health, survival and quality of fishes. There are over ten pay-to-fish ponds businesses that help make up the growing recreation market in Presidente Prudente – SP however it not known the quality of its water. The objective of this study was to evaluate the physicochemical and microbiological parameters in samples collected from recreational fishing tanks at Presidente Prudente – SP. The samples were collected in triplicates at three different recreational fishing tanks. The collected samples were submitted to the analysis of the conductivity, pH, level of dissolved oxygen and turbidity. In addition, the presence of total and thermotolerant coliforms was also quantified. The results indicated that pH and conductivity ranged respectively from 7.2 to 8.9 and 170 to 800 μ S/cm. The maximum value found for turbidity was 7.16 NTU and for dissolved oxygen was 10,8 mg/l. The presence of total coliforms was observed in all samples however it was not found thermotolerant coliforms. Results indicated that recreational fishing tanks evaluated presented good quality however it was demonstrated that aquaculture water should be periodically analyzed. In conclusion, it is necessary to emphasize the importance to maintain the good quality of the water to avoid economical loses and improve the fish management.

Key words: conductivity, dissolved oxygen, turbidity, total and thermotolerant coliforms.

Development Agency: SGP - UNOESTE #3277