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Use of Lambari *Deuterodon iguape* as an alternative to live bait for estuarine sport fishing

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Fishing tourism is continually growing in Brazil, fisher folk attend the demand of recreational fishing, capturing and selling live shrimp to be used as live baits, causing the decrease of native shrimp stocks available in the natural environment. This study aims to verify the efficiency of the use of *Deuterodon iguape* as live bait in fishing for sea bass (*Centropomus* spp.). Two boats were used with one fisherman each, who operate in the region of Baixada Santista and traditionally use the white shrimp *Litopenaeus schmitti* as live bait. During ten months (July 2016 to April 2017), the fisheries were monitored monthly, with 108 attempts for each exit, 54 with shrimp and 54 with *D. iguape*. These 108 fisheries were divided into three stages of 18, where fishermen alternated the type of bait used, *D. iguape* or shrimp. The number of hooked fish for each bait and the duration of the fishery were recorded. The variables found were coded and the results were evaluated by frequency table and consistency tables were constructed and the independence test was applied based on the Chi square distribution (χ^2) and the absence of association (H_0) was evaluated for the level of significance of $\alpha=0.05$. The results showed that there was no significant difference between the live baits used (*L. schmitti* and *D. iguape*). The month, period of the day, phases of the moon, and the location were significant. The size of the species caught did not depend on the type of bait used.

Biography

Marcelo Barbosa Henriques has completed his PhD at UNESP, São Paulo, Brazil. He is the Director of Center for Research and Development of the Advanced Marine Fishery Research Center, and Vice-Coordinator of the post-graduate program in Aquaculture and Fishery of the Fishery Institute. He has published more than 50 papers in reputed journals and has been serving as an Editorial Board Member of repute.

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