Length–weight relationship of 39 selected reef fishes in the Kenyan coastal artisanal fishery

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Abstract

Length–weight relationships (LWRs) are presented for 39 major fish species in the Kenyan artisanal marine fishery. Captures were made between the years 2001 and 2009. The parameters \( a \) and \( b \) of the equation \( W = aL^b \) were estimated. The parameter \( b \) ranged from 2.030 (Nomorhamphus weberi) to 3.987 (Lutjanus fulviflamma) with a mean of 3.08 (S.E. 0.02) and 72\% of its estimates were between 2.6 and 3.2. Whenever possible, the \( b \) values for the species obtained both in this study and some of the previously reported in other studies were compared. The estimated parameters should only be applied to the species analyzed.