

**ESTIMATION OF A MODEL OF SPECIES BENTHIC  
MACROINVERTEBRATE ANALYSIS VIA BAYESIAN MODEL  
MICHAELIS-MENTEN**

Eustáquio José MACHADO<sup>1</sup>  
Joel Augusto MUNIZ<sup>2</sup>  
Thelma SÁFADI<sup>2</sup>  
Taciana Vilella SAVIAN<sup>3</sup>

- **ABSTRACT:** *In this study, it was estimated that the number of macroinvertebrate called biological species, using the model of non-linear regression in the context ecological known as Michaelis-Menten equation, from samples collected in streams (streams) clear water study Lima (2008). The methodology made use of Bayesian inference to estimate the model parameters. The results showed a considerable increase in the precision of estimates of parameters using the Bayesian approach with the use of informative priors.*
- **KEYWORDS:** *Regression model non-linear estimation species, benthic macroinvertebrates.*

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<sup>1</sup> Universidade Federal do Acre – UFAC, Rio Branco, AC, Brasil. E-mail: [chefinhoo@globocom](mailto:chefinhoo@globocom)

<sup>2</sup> Universidade Federal de Lavras – UFLA, Departamento de Ciências Exatas – DEX, Lavras, MG, Brasil. E-mail: [joamuniz@dex.ufla.br](mailto:joamuniz@dex.ufla.br) / [safadi@dex.ufla.br](mailto:safadi@dex.ufla.br)

<sup>3</sup> Universidade de São Paulo – USP, Escola Superior de Agricultura – ESALQ, Departamento de Ciências Exatas – DCE, Piracicaba, SP, Brasil. E-mail: [tvastian@esalq.usp.br](mailto:tvastian@esalq.usp.br)