



**Analysis of the Geographical Distribution of Scorpions in the Municipality of
Presidente Prudente / SP**

Jean Farhat de Araújo da Silva, Undergraduate Research, jeanfarhat7@gmail.com

Rafael de Castro Catão, Doctorate, rafadicaastro@gmail.com

Raul Borges Guimarães/ Laboratório de Biogeografia e Geografia da Saúde

Introduction: The presence of scorpions in the municipality and their proximity to the human population are factors that cause risk to public health. Because of this, there needs to be adequate control of these creatures, bearing in mind that their eradication would not be possible. There is a certain selectivity of localities in Brazil where incidents involving scorpions occur, principally in the states of Minas Gerais, Bahia and São Paulo. So, taking certain preventative measures can contribute to reducing the number of incidents.

Methodology and development: This project seeks to analyze the distribution of scorpions in the municipality of Presidente Prudente, São Paulo, during the period from 2010 to 2012, linking socio-environmental aspects so as to contribute to an understanding of this situation, giving support to the agencies responsible for combating public health problems in the municipality, such as the Centre for the Control of Zoonosis (CCZ), the Municipal Health Secretariat of Presidente Prudente and the population in general. The methodological processes will consist of a review of the literature on the subject so as to underpin the theme throughout the research; scanning data provided by the CCZ regarding occurrences of scorpions in the municipality of Presidente Prudente during the period 2010 to 2012; the creation of a database from the information collected; producing a map of the spatial distribution of appearances of scorpions as they happened in the municipality using the geo-coding software ArcGIS 10. **Final thoughts:** As a result of this research, we expect to learn: the social groups that are most exposed to incidents; the socio-environmental conditions responsible for producing such incidents; which neighbourhoods are most severely affected, and which are least affected, and why; what can be done to give adequate control of the situation; what can be done to give people appropriate access to information.

Key words: Scorpions, Control, Spatial Distribution, Public Health, Occurrences, Accidents.