Socioecological Resilience: Quantitative Assessment of the Impact of an Invasive Species Assemblage on a Lake Ecosystem

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Table S1. Survey developed to study the perception of socioecological resilience to the presence of the invasive species assemblage in the lake ecosystem under study.

The present survey aims to investigate the social, ecological, and economic impacts caused by the presence of invasive species: Water Hyacinth (*E. crassipes*) and Red Swamp Crayfish (*P. clarkii*). This survey consists of a questionnaire divided into four sections, each comprising five questions (20 questions in total). The questions are focused on understanding perceptions regarding the presence of the mentioned invasive species assemblage and their stance on the issues faced by Fúquene Lagoon.	
First section (Basic characterization)	1. Gender: Male (M), Female (F), or Other (X). 2. Age: a) 18 to 25 years, b) 26 to 35 years, c) 36 to 45 years, d) 46 to 60 years, or e) over 60 years. 3. Are you a visitor or a resident of the Fúquene Lagoon area?: Resident (X), or Visitor (X). 4. If you are a visitor to the lake, how often do you visit this place per year?: a) once, b) twice, c) three times, d) four times, or e) more than four times. If you are a resident of the area, how long have you lived there?: a) less than 3 years, b) 4-6 years, c) 7-9 years, d) more than 10 years and less than 20, or e) more than 20 years. 5. What is your daily occupation?: a) livestock farming, b) agriculture, c) fishing, d) crafts and tourism, or e) none of the above.

Second section (Social Dimension)	1. Which of the following situations do you consider the main cause of the issues faced by the lake?: a) community disinterest in lake conservation, b) governmental absence, c) misbehavior of visitors at the lake, d) improper management of the lake by the community, or e) increase in areas used for productive activities. 2. How would you rate the level of community ownership over the lake ecosystem?: a) very high, b) high, c) medium, d) low, or e) very low. 3. Regarding the strategies developed at the lake to reduce the social vulnerability of the area's inhabitants, do you consider these to be?: a) very appropriate, b) somewhat appropriate, c) appropriate, d) slightly appropriate, or e) not appropriate at all. 4. What strategies should be implemented to socially strengthen the lake's inhabitants?: a) community engagement activities, b) increased institutional/governmental presence, c) risk prevention strategies, d) environmental education and awareness workshops, or e) communication and feedback spaces regarding the issues. 5. In your experience, what adaptation processes have been carried out to address the impacts experienced in the lake due to the presence of these invasive species?: a) substitution of economic activities, b) migration to less altered areas of the lake, c) increased conservation of the lake, d) responsible use of the goods and services generated by the lake, or e) increased control processes over the state of the lake by the community and governmental organizations.
Third section (Ecological Dimension)	1. In your opinion, to which of the following factors can the ecological issues faced by the lake be attributed?: a) water pollution, b) deforestation, c) presence of invasive species, d) decrease in biodiversity, or e) loss of water surface area. 2. Are you familiar with the species Red Swamp Crayfish (*P. clarkii*) and Water Hyacinth (*E. crassipes*)?: Yes (X), No (X). If the answer is yes, how long have you identified the presence of the species in the lake?: a) less than 2 years, b) 3-4 years, c) 5-6 years, d) 7-10 years, or e) more than 10 years. 3. It has been proven that the presence of these species causes alterations in the lake. Which of the following do you identify as occurring in this location?: a) decrease in water surface area, b) impacts on nearby crops, c) loss of biodiversity, d) variations in water quality, or e) landscape transformations. 4. What control strategies do you recognize have been implemented to reduce the impact on the lake?: a) manual or mechanical removal of aquatic plants, b) capture of invasive species, c) dredging and filtration of water, d) regulation of pollution processes, or e) environmental education events. 5. Do you believe that through your daily activities you can contribute to the control of both species?: Yes (X), No (X); if your answer is yes, please mention the level of risk the lake and its inhabitants face if control strategies for these invasive species are not developed: a) very high, b) high, c) medium, d) low, or e) very low.

Fourth section (Economic Dimension)	1. In your opinion, what is the main cause of the economic issues faced by the lake?: a) exploitation of natural resources, b) appropriation of territory for various activities, c) lack of control over the state of the lake, d) increased demand for ecosystem goods and services, or e) direct economic dependence of the inhabitants on the lake's resources. 2. Personally, how would you rate the overall economic value of Fúquene Lagoon?: a) very high, b) high, c) medium, d) low, or e) very low. 3. From your perspective, which of the following services provided by the lake do you believe is most affected by the economic activities in the region?: a) water, b) biodiversity, c) soil, d) timber, or e) energy sources. 4. Is your daily economic activity related to the lake?: Yes (X), No (X); if yes, please indicate if this activity is affected by any of the following situations: a) presence of invasive species, b) floods, c) droughts, d) pollution, or e) dredging and removal of vegetation cover. 5. If the lake's conditions are poor, what alternatives do you have to continue your economic activities without being affected?: a) access to secondary sources of water and energy, b) assistance from governmental organizations, c) income from productive activities other than those related to the lake, d) recycling or reusing elements in production processes, or e) reducing production levels.

Respondent Authorization:

I, _____, voluntarily completed the survey on the ___ day of the month of _____ in the year _____. I hereby authorize the use of the responses provided by me for contributing to the development of this research.