NEW INDICATOR OF ENVIRONMENTAL VALUE TO ESTIMATE THE IMPACT IN A BASIN

Edgar Ricardo Monroy Vargas[1] and Nora Pouey N[2]
[1]University Gran Colombia, Bogotá, Colombia
[2]University Nacional de Rosario, Argentina

Abstract

The environmental management and land use planning, turns out to be a difficult issue for all governmental authorities. Monroy Ph.D., in his doctoral work called Systemic Model for Environmental Impact Assessment at a River Basin Level, proposed a methodology to quantitatively assess the environmental impact at a river basin level. In the same work proposed an indicator called EVI (Environmental Value Indicator, standing for IVA in Spanish), which includes the result of environmental impact value with other macroeconomic variables, with the support of Fuzzy Logic. It is important to note that the estimated environmental impact at the Cuenca level is quantitative, and the EVI is an important and innovative contribution in environmental assessment and management. For the ablation of this methodology was worked as a case study of the Garagoa River Basin in Colombia. This work supports a better decision making about its use and environmental management.