Abstract

Iran is a country with a predominantly warm and dry climate. Rapid population growth have been the most important factor in reducing per capita renewable water in the last century. The limited capacity of water resources in our country, demands optimal protection and utilization of it for future water needs. The need for integrated water resources management due to increasing of population and competition for water consumption are increasingly felt. In order to better implement this management, the most important step is the integrated evaluation of water resources. Integrated evaluation of water resources systems, an important and necessary part of water resources management which is done by markers. The ability to present complex phenomena in the context scalable and objective intelligible markers, for stakeholder on the one hand and setting objective criteria for analyzing changes over time and place. Markers as an effective tool for assessing environmental sustainability and it has made effective communication among stakeholder, therefore, it is essential to identify and apply marker production models. Physical frameworks are known as the most popular marker selection frameworks. The most prominent of these model is the DPSIR conceptual model. In this thesis, the main problem of sustainability of water resources in jiroft city by using of the DPSIR conceptual model and create a set of markers to monitor the status. In this regard, first, by simulating a participatory approach problems related to plain water resources were identified and priority problem identified. In the next step, the main problem related to water resources were described using the DPSIR model, and a set of markers to match the model structure, they were presented to reflect the status of the system. a list of common criteria for selecting markers provided and the proposed indicators based on an evaluation, system were compared with these criteria, and the markers that best satisfied the selection criteria, identified as the main set of markers. In fact, this research uses a methodology to identify key problem of water resources and evaluating these problems by finding out the causes that initiate the problems and the implications that these problems have had with the use of markers, therefore, the primary focus of this study is on the process performed until the result are emphasized.

Key words: Integrated evaluation of water resources, Evaluation of markers, Jiroft, DPSIR model.



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