

APPLICATION OF GIS IN URBAN WATER MANAGEMENT IN CRITICAL CONDITION

Hossein Nazmfar¹

¹Associate Professor, Department of Geography and Urban Planning, Faculty of Humanities,
University of Mohaghegh Ardabil, Ardabil, Iran

Abstract

One of the problems in urban management system in natural crisis is providing of water for drinking, health protection and quenching of probable fire. In the appearance of natural crisis, accessing to correct information of urban water distribution network is very difficult. For the reason that the establishment of urban water network is underground. So, in this paper, we used GIS technology for management of urban water for optimum management in critical condition in Bonab city.

Firstly we collected data, importing, saving and managed its, in GIS. Secondly, the water distribution network are modeled and analyzed in Bonab city using of network analysis. Result of this paper show that the GIS (network analysis) is very powerful technology for analyzing of water utilities in critical condition.

Keywords: Water utilities; GIS; Modeling; Network analysis.