Evaluation of Urban Waste Management and Presentation of Effective Drivers on it Using GIS and Futurology Research Method (Case study: Darrehshahr)

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Abstract

The production of solid waste increases due to the increase of human societies and the development of cities, which can provide the ground for environmental pollution. Accordingly, in order to protect the ecosystem, we must pay more attention to solid waste management.

In this research, the aim is to evaluate Darrehshahr waste management and provide effective drivers for it. The present research is theoretical-applied in terms of nature and descriptive-analytical in terms of study method. Library and field methods were used to collect information. The statistical population of the study included citizens and experts who based on Cochran›s formula 370 questionnaires were randomly distributed among citizens. The statistical population of experts was 30 people and the questionnaire was distributed based on the method of snowmobile. Geographic Information System (GIS), SPSS software and MicMac software were used to analyze the data. The results of the research based on the GIS showed that the landfill in the study area is in a moderate and suitable condition. Also, according to t-test, Darrehshahr waste management is in an unfavorable situation. The results of Mick Mac for effective propulsion also show that the adoption of municipal budget and investment in the implementation of recycling, the attention of officials to the recycling and compost industries, planning and execution of waste operations, the use of advanced technologies, the use of successful cities in the field of waste management and recycling and paying attention to the separation plan from the source are the determining or influential factors on waste management in Darrehshahr.

Keywords: Waste Management, GIS, Futurology, Dareh Shahr

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