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Assessment of Water Quality related to Land Use/Land Cover Pattern change in Yercaud, Salem

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Abstract:The study reviewed the relationship between the land use and water quality in yercaud lake, Salem in order to find the impact on land use change on yercaudthrough Geographical Information System (GIS). The land use and land cover data expose the losses in vegetation cover of the watershed. LU/LC map was prepared by using Arc-GIS 10.1 software. Correlation and Regression analysis were applied for fifteen parameters. Correlation analysis was used to observe the processes controlling the effects of land use on the water quality in this area. Regression analysis generates an equation to describe the statistical relationship between the water quality and land use pattern changes. This indicates the level of relationship, it should be studied in multiple scale and this study useful for develop effective management of Lake Ecosystem.

Keywords: Water quality; Correlation analysis; Regression analysis; Land use; ecosystem.

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